## **1** TeamViewer IoT activation – IBH Link UA

TeamViewer IoT software option is pre-installed in the IBH Link UA starting firmware V 7.5. This option offers the possibility of being able to access almost all PLC systems anytime and anywhere.

Complex modem solutions or the use of a PC on site are a thing of the past.

🔛 IBH Link UA	×	- 0	×
← → ⊂ ŵ	¥ 192.168.1.15/?_=/network ···· ♥ ☆ III\ 🗉 Θ	* 0	≡
	OPC server is running Logout Update password qu	uad-core	
Network Security Certificates Time settings System Users Siemens slots History OPC Client Diagnostics MQTT SoftPLC	Management Level       Control Level       OpenVPN       TeamViewer IoT         TeamViewer IoT       Status       TeamViewer IoT       Status       Status       TeamViewer IoT         Assignment Token       is returned by TeamViewer IoT       is to be configured       is to be configured         Group       is to be configured       is to be configured         TeamViewer auto start       is to be configured         Global System Configuration       Download logfile         Global System Configuration       Default gateway         Port       48010         Default gateway       192.168.1.1         Nameserver 1       192.168.1.1         Nameserver 2       213.157.0.193		
www.ibhsoftec.com	offec Inntact Wiki	UA ver / client	Ī

To establish a connection via *TeamViewer-loT*, the Ethernet subnet of the control level must have access to the Internet.



The IBH Link UA manages two subnet addresses separated by a firewall, each with its own MAC address.

#### Ethernet areas:

Level	Port	
Management Level	Port 1	MUSt De IN different subnets
Control Level	Port 2 - 4	

## PC preparations – connected to the Ethernet port of the Management Level

To use the access options of the pre-installed TeamViewer IoT software, the following conditions must be met:

TeamViewer software version 15.9.4 or newer must be installed on the PC that is to be used to access the external IBH Link UA.



A TeamViewer account with a corresponding license must be ready for activation.

😁 TeamVi	iewer				—		×
Connect	ion Extras Help Feedbac	k		Insert partner ID	<b>4</b> 3	Connect	
		Free license (non-commercial use	only) - Pete				
•	Sign In Don't have an account?	Email	Are you alread customer?	ly a TeamViewer			
47	Remote Control	Password to complete	account to use t	he full functionality.	wei		
A A	Remote Management	Sign In					
( <b>†</b> )	Meeting	✓ Keep me signed in					
<b>:</b>	Computers & Contacts	Forgot password					
	Chat (mark)	Sign Up Single Sign-On Login					
<b>B</b>	Augmented Reality						
<b>₽</b>	Getting Started						
$\bigcirc$	<b>Team</b> Viewer	Ready to connect (secure connection	)				

Install the IBHNet-IoT-Setup.exe software on the PC. This software is available for download at

https://download.ibhsoftec.com/neutral/IBHNet-IoT-Setup.exe

#### Install IBHNet-IoT software

Double-click the *IBHNet-IoT* icon created during installation. The ibhsoftec-agent-service is started.



The service is displayed in the *IBHNet-IoT Tray* in the task bar. It may be necessary to change the properties of the taskbar to display the icon.



## **1.1.1 Opening the TeamViewer IoT Management Console**

Use the link <u>https://teamviewer-iot.com/en/</u> to open the TeamViewer Internet of Things login page and log in.



After logging into the *TeamViewer IoT Management Console*, open the *Assignment token* dialog box.

Viewer IoT Management C 🗙 🕂						- 0	$\sim$
	n/en/				… ⊠ ☆	⊪\ ⊡ ⊖ ¥ O #	7 ≡
ImViewer net of Things					🖶 English 👻 Contact Us	Pete@Schulz-Heise.com	
						Help	
TeamViewer IoT Home						API Key	
DEVICE SUMMARY	ALARMS			(last 30 days)	Assignment	Assignment token	
Devices Metrics	Critical	Major	Minor	Warning		Log Out	_
O Online     O Total     Ofline	0	0	0	0			
a 9	*						
Add Device							
Documentation							
			😑 TeamV	'iewer lo⊤:			
Getting Started 🗠 TeamViewer IoT Agent Installation 🗹		_		>			
TeamViewer IoT Agent Remote Control			🖂 5	^>	hits.	E 9 💥	: 🔿 🖸
				~		2 3 4	
			_				click
			English	<ul> <li>Conta</li> </ul>	actUs   Pe	ete@Schulz-He	eise.com 🍾
						Help	
						API Key	
				Δssi	ianment token	Assignmen	nt token
				Ass	ignment token	Assignmen	nt token
				Ass	ignment token Click	Assignmen	nt token

## Assignment token dialog box

😁 TeamViewer loT Managem	ent C X + X
← → ♂ ✿	<ul> <li>         Image: A structure of the struc</li></ul>
	English Contact Us   Pete@Schulz-Heise.com -
≡	
命 Home	Assignment token
🗄 Inventory	
③ Settings Templates	Assignment token is used to assign the device to the account.
I Rules	Copy
‡ Alarms	Renew Assignment token
⊠ Notifications >	
🕄 Dashboard	Assignment token is used to assign the device to the account.
	*****
¢	Renew
B.	clicking the Convicon the Assignment token

By clicking the Copy icon, the **Assignment token**, shown with several dots, is copied to the Windows clipboard.

The **Assignment token** must be copied into the field with the same name in the **IBH Link UA** browser window Network/TeamViewer IoT.

(clic

Сору

	🗱 IBH Link UA	× +	×
¢	$ ightarrow$ C' $\mathbf{\hat{u}}$ $\mathbf{\hat{v}}$	🔏 192.168.1.15/?_=/network … 🖂 🎲 🕢 🕅	≡
		OPC server is running Logout Update password quad-core	
ιL	Network	Management Level Control Level OpenVPN TeamViewer IoT	
	Security Certificates	TeamViewerIoT Status TeamViewerID	
	Time settings	Assignment Token	
	System	Group TTTI	
	Users	Start Stop New assign Remove assignment Download logfile	
	Siemens slots		
	History	Global System Configuration	
	OPC Client	Port 48010	
	Diagnostics	Default gateway 192.168.1.1	
	MQTT	Nameserver 2         213.157.0.193	
	SoftPLC	Apply Revert	

Enter the group name and mark that the TeamViewer is switched on automatically. Clicking the *New assign* button opens the *TeamViewer IoT End-User License Agreement.* 



agreement must be accepted by clicking the button Accept.



## Note!



The transmission of the **Assignment token** to **TeamViewer** can take some time.

The online connection to the *TeamViewer loT server* has been established.



#### Copy the TeamViewer ID

Copy the TeamViewer ID number to the Windows clipboard.



Right-click on the *IBHNet-IoT Tray* icon to open the context menu. The *Agents...* command opens the *TeamViewer Shortcuts* dialog



Insert the TeamViewer ID number in the field of the same name. The display name is transferred to the *TeamViewer account*. This name can be used to establish a connection to the IBH Link UA via the Internet.

Teamviewer-Shortcuts	×
Connections           Display name         Teamviewer-URL           IBH Link UA QC         teamviewer8://remotecontrol/?remotecontrolid=222222222&forwardports=[31711:localhost:31711:3]           is inserted	]
Connection Display name: IBH Link UA QC	
Teamviewer ID: 222222222 insert 1 Add to list Click 3 Properties OK Cancel	

Clicking the Properties button, a dialog box appears with the details of the network card via which the IBH Link UA is connected.

Properties			×
Language	C German	• English	
Ethernet card w	ith Internet Access		•
Local Port	31711	Timeout [ms]:	10000
		confirm	QK <u>C</u> ancel

By clicking the Add to list button, the display name and the TeamViewer ID are adopted. The dialog box is closed with **OK**.

The installation of *TeamViewer IoT* in the IBH Link UA is now complete.

#### 1.1.2 Establishing a connection

A connection to the IBH Link UA and thus to the PLC controls and other devices that are connected to the ports of the control level can be established via the Internet from any PC.

#### The IBHNet-IoT software must be installed on this PC.

TeamViewer must be started, and you have logged into the TeamViewer account.



Right-click on the IBHNet-IoT Tray icon to open

the context menu. The devices registered with the *TeamViewer account* are listed in the upper area of the context menu. The connection is established with a click on the desired device (IBH Link UA).

IBH Link UA QC	
Close TeamViewer connection	
Agents	
Help	
Homepage	
Wiki	
Information	
Close IBHNet-IoT Tray	
IBHNet-IoT Tray - IBHsofted (right click) Ready	: GmbH
へ 👘 😌 🖏 🏳 🖫 🕬 16:30 2020-09-03 🖓	

The establishment of the connection is displayed.

Connection establishment	×
Progress	
Read current configuration	
Connected agent	
Remote=ibhlinkua_qc Address=10.0.13.99 Mask=255.255.255.0	
Connection establishment	×
- Progress	
Write r	emote configuration
Connected agent	
Remote=ihhlinkua.or.Address=10.0.13.99.Mask=	=255 255 255 0
	Connection establishment
	Progress
	Start local services
	Connected agent
	Remote=ibhlinkua_gc Address=10.0.13.99 Mask=255.255.255.0
	Istening port: 31711
Connection establishment	allowed tps: 192.166.2.0/24
Configurati	ion complete
Connected agent	
Remote=ibhlinkua_qc Address=10.0.13.99 Mask=255.255	5.255.0
listening port: 31711	confirm
allowed ips: 192.168.2.0/24	OK Cancel

After the connection has been successfully established, the *IBH Link IoT* appears as a *WireGuard tunnel* under the network adapters of the PC.



From now on, all controls and devices that are connected via the *Control Level* of the *IBH Link UA* can be reached.

😁 ibhlinkua_qc - TeamViewer			– 🗆 X
File transfer	Remote AppControl	Port Forwarding	]
	OPC server is running		quad-core
Login The password is case-sensiti User Enter your us Pas Enter your p Rememi Keeps login for	ve. r name ler name admin enter sword assword ber me 2 weeks V Login Lost password		
www.ibhsoftec.com	<b>SOFTEC</b> <u>n</u> Contact Wiki		IBH Link UA embedded OPC UA server / client

#### Note!



During the TeamViewer start process it may happen that no connection is established, and the error messages are displayed. These error messages are to close with Cancel. The starting process must be started again.



#### Activate the start process again

IBH Link UA QC	
Close TeamViewer connection	
Agents	
Help	
Homepage	
Wiki	
Information	
Close IBHNet-IoT Tray	
IBHNet-IoT Tray - IBHsofter	c GmbH
へ 👕 😍 🖧 臣 🕼 16:30 📿	

After the connection has been successfully established, the *IBHNet-IoT Tray* icon in the taskbar changes. It gets an additional green mark.



From the PC, whose *IBHNet-IoT Tray* lcon shows the existing online connection, controls (CPUs / devices) connected to the *Control level* ports can be accessed with the appropriate software (programming system).

# 1.2 Access to controls (CPUs / devices) connected to the ports of the control level.

It should be possible to access controls that are connected to the *Control level* via an *IBH Link UA*.



Several PLC programming systems for online access to the individual controls are installed on the external PC.

PLC control	Programming system	IP address		
CPU 416 S7	10.0.13.93	STEP 7 Simatic		
CPU 312 S7	10.0.13.92	Manager		
PLC 1500	10.0.13.90	TIA Dortol \/16		
PLC 1200	10.0.13.91	TIA POITAI VIO		
S5 CPU	10.0.13.94	S5 for Windows		

IDH Link IIA	Control Level	10.0.13.89
	Management Level	192.168.1.10

The control level port has direct access to the Internet.

A PC was available to set up.

During the *TeamViewer IoT* setup (*IBH Link UA control level* **192.168.1.10**), the *TeamViewer ID* was transferred to the IBH Link UA.

The *TeamViewer ID* number is required by the external PC when installing the IBHsoftec software *IBHNet-IoT-Setup.exe*.

#### **TeamViewer ID number**

👮 IBH Link UA - Network	× IBH Link IoT:Inbetriebr	nahi 🗙 🛛 🌆 Goo	gle Übersetzer	×	+		-		×
← → C û 0 8	192.168.1.14/?_=/network		🗵	0 ☆	111\	1	0 🛪	•	≡
	OPC server is running	Logout Update	password				single	e-core	
Network	Management Level	Control Level	OpenVPN	Т	eam¥i	ewer	IoT	]	-
Security	Status	Online							
Time settings	Accimpment Taken	"Pete"		1					
System	Group TeamViewer auto start	TTI		-					
Users Siemens slots	Start Stop New assign	Remove assign	ment Downlo	ad logfile	9				

#### **External PC**

TeamViewer is installed on the external PC. There is access to a TeamViewer account with the corresponding IoT license. The IBHsoftec software *IBHNet-IoT-Setup.exe* must be installed

- The transferred TeamViewer ID is required for access.
- Start TeamViewer
- Start IBHNet-IoT setup
- Right-click on the *IBHNet-IoT Tray* icon to open the context menu. The *Agents...* command opens the *TeamViewer Shortcuts* dialog box.



 Insert the TeamViewer ID number in the field of the same name. A connection to the IBH Link UA can be established via the Internet using the display name.

Connections		
Display name	Teamviewer-URL	
IBH Link UA SC	teamviewer8://remotecontrol/?remotecontrolid=22222	22222&forwardports=[31711:localhost:31711:3]
<u> </u>	is inserted	
,		
Connection		
	freely selectable	
Display name:		
Teamviewer ID:	2222222222 (enter)	
	· · · ·	
	Add to list	Remove from list
		confirm

Right click on the *IBHNet-IoT Tray* icon to open the context menu.

IBH Link UA SC	
Close TeamViewer connection Agents	
Help	
Homepage	
Wiki	
Information	
Close IBHNet-IoT Tray	
IBHNet-IoT Tray - IBHsofte (right click) Ready	c GmbH
^ 16:30 □ □ □ 00 00-03 □	

• With a click on IBH Link UA SC, the connection to the ibhlinkiot address is established via the Internet.

The establishment of the connection is displayed.

Connection establishment	×
Progress	
Read current configuration	
Connected agent	
Remote=ibhlinkua_qc Address=10.0.13.99 Mask=255.255.255.0	
k	
QK Cancel	

The *Port Forwarding* to the IP address is displayed.

😁 ibhlinkua_qc - TeamViewer			– 🗆 X
File transfer	Remote AppControl	Port Forwarding	3
	OPC server is running		quad-core
Login The password is case-sensit Use Enter your up The part The part Enter your p Remem Keeps login for	Ive. Ir name Seword Seword Seword Login Lost password		
www.ibhsoftec.com	<b>SOFTEC</b> m Contact Wiki	Ø	IBH Link UA enbedded OPC UA server / client

To access the individual CPUs (devices) (e.g. status) no registration to the IBH Link UA is necessary.

 Start the programming software (STEP 7, TIA, S5 for Windows etc.).

### STEP 7 Simatic Manager – CPU 416 S7 – IP address 10.0.13.93

The CPU 416 has an Ethernet port and is directly connected to the Control Level of the IBH Link UA.

#### Set interface



#### Status S7 CPU 416

🦺 SIMATIC Manager - [CPU 416 S7 A:\CPU 416 S7]							
🎒 File Edit Insert PLC View	Options Window Help	_ 8 ×					
🗅 😅 🔡 🛲 👗 🖻 💼 📩	😨 💁 🕒 🔛 🏥 🏥 主 < No Filter >	- 10					
	System data 🖶 OB1 📻 OB100 FC5 📻 DB2 🍄 Display count	er data					
Press F1 to get Help.	Wintun Userspace Tun	nel.TCPIP.Aut					
👪	416 S7\CPU 416\CPU 416-3 PN/DP\Counter_ONLINE]	- • ×					
👪 Table Edit Insert PLC Variable	e View Options Window Help	_ 8 ×					
		llar					
Address Symbol	Display format Status valu Modify value						
1 M 2.2 "Counting ON"	BOOL 🚺 true true						
2 M 2.5 "Down"	BOOL false						
3 M 2.6 "Up"	BOOL II true						
4 M 2.0 "Max"	BOOL false						
5 M 2.1 "Min"	BOOL false						
6 MW 12 "CounterValue"	DEC 5574						
7 M 2.3 "Count"	BOOL true true						

## STEP 7 Simatic Manager – CPU 312 S7 – IP address 10.0.13.92

The CPU 312 is connected to the control level of the IBH Link UA via an LBH Link S7++ (IoT S7++).

🍠 SIMATIC Manager - [CPU 312 S7 A:\CPU 312 S7]	
🞒 File Edit Insert PLC View Options Winde	w Help _ B x
🗋 🗅 😅 🔡 🐖 🕺 🖺 💼 💼 📩 Customize.	Ctrl+Alt+E 🗾 👽 🛛
🖃 🖶 CPU 312 S7 🛛 🙆 Access Prot	tection >
GPU 312	c
Sources Set PO/PC	nterrace
Blocks	CIICK
Set PG/PC Interface	×
Access Path LLDP / DCP PNIO Adapter Info	
Access Point of the Application:	
(Shandard for STEP 7)	
	click 2
Interface Parameter Assignment Used:	
IBHNet.MPI.1	roperties
🕮 Hyper-V Virtual Ethernet Adapter. TC 🔨 🔡 IBH I	Network (MPI)
BHNet.MPI.1	tion: 3 open / select
	S7++
	CPU416
PL	2 416-VM1
(User parameter assignment (converted)) PU	1-CPU 312-IBH LPTS7++ C416-VM <mark>confirm(4)</mark>
Confirm	OK IBH network settings Cancel

## Status S7 CPU 312

🍠 SIMATIC Manager - [CPU 312 S7 A:\CPU 312 S7] 👘 📼 📼						
🎒 File Edit Insert PLC View Options Window Help 🛛 🗕 🗗						
🗅 🛩 🖁 🛲 🕺 🛍 💼 📩 🖢	🔚 🏥 💼 < No Filter > 🔽 🏹					
□       ⊕       ⊕       ⊕       System data         □       □       □       ⊕       FC5         □       □       □       ⊕       CPU 312 S7         □       ⊕       □       □       ⊕         □       ⊕       CPU 312 S7       ●       ●         □       ⊕       CPU 312 S7       ●       ●         □       ⊕       CPU 312 S7       ●       ●         □       Bocks       ●       Bocks       ●	■ 0B1					
Press F1 to get Help.	IBHNet.MPI					
War - [CountingDisplay - @CPU 312 ST\CPU 312\CPU 312\CPU 312 ST ONLINE]     Table Edit Insert PLC Variable View Options Window Help     - ㅋ×						
Address Symbol	Display format Status value Modify value					
1 M 2.5 "Down"	BOOL false					
2 M 2.6 "UP"	BOOL true					
3 M 2.0 "Max"	BOOL false					
4 M 2.1 "Min"	BOOL false					
5 MW 12 "Level_1"	DEC 7928					
	DEC 100					
6 DB2.DBVV 0 "Countervalues_1".MinValue_1	100					
6         DB2.DBW         0         "CounterValues_1".minValue_1           7         DB2.DBW         2         "CounterValues_1".MaxValue_1	DEC 10000					
B         DB2/DBW         CounterValues_1*MinValue_1           7         DB2/DBW         2         "CounterValues_1*MinValue_1           8         DB2/DBW         4         "CounterValues_1*.Value_1	DEC         10000           DEC         7927					
6         DB2.DBW         0         "CounterValues_1".MaxValue_1           7         DB2.DBW         2         "CounterValues_1".MaxValue_1           8         DB2.DBW         4         "CounterValues_1".Value_1           9         DB2.DBW         6.0         "CounterValues_1".Counting_is_on_1	DEC 10000 DEC 7927 BOOL true					

## TIA Portal V16 - PLC 1500 - IP address 10.0.13.90

Extended download to device X							
Configured access podes of "PLC 1500"							
	conligured access node						
	Device	Device type	Slot	Interface ty	pe Address	Subnet	
	PLC_1500	CPU 1511-1 PN	1 X1	PN/IE	10.0.13.90	PN/IE_1	
	Type of the PG/PC interface: 📃 PN/IE				•		
		PG/PC inter	face:	💹 Wintun Us	erspace Tunnel	- 🐑 🖸	
	Conne	ction to interface/su	bnet:	PN/IE_1		• 🐑	
		1st gate	eway:				
	Select target device:				Show devices	with the same addresses 💌	
	Device	Device type	Interfa	ce type	Address	Target device	
(	PLC_1500	CPU 1511-1 PN	PN/IE	PN/IE 10.0.13.90		PLC_1500	
a l	-		PN/IE		Access address	-	
Elach I ED							
						<u>S</u> tart search	
Online status information:	:				Display only	y error messages	
1 Scan completed. 1 co	ompatible devices of 1 ac	cessible devices fou	nd.			^	
• Retrieving device info	17 Retrieving device information						
✓ Scan and information retrieval completed.							
						~	
						Load <u>C</u> ancel	

## Status CPU 1500 – data block tank data [DB5]

PL	PLC 1500 → PLC_1500 [CPU 1511-1 PN] → Program blocks → CounterData [DB5] 🖬 🖬 🗙								
2	学 学 🔩 🛃 🚞 🅎 Keep actual values 🔒 Snapshot 🔍 🧐 Copy snapshots to start values 🕵 🔭 📑								
	CounterData								
		Na	me	Data type	Offset	Start value	Monitor value	Comment	
1	-00	•	Static						
2		•	MinNo1500	Int 🔳	0.0	1000	100	minimum counter reading (number)	
3		•	MaxNo1500	Int	2.0	10000	8000	maximum counter reading (number)	
4		•	Count1500	Bool	4.0	false	TRUE	Counter is counting	
5		•	CountingON1500	Bool	4.1	false	TRUE	Enable counting	
6		•	CounterValue1500	Int	6.0	0	710	CounterValue	

## TIA Portal V16 – PLC 1200 – IP address 10.0.13.91

xtended download to	device							
	Configured access nodes of "PLC_1200"							
	Device	Device type	Slot	Interface t	pe Addre	ss	Subnet	
	PLC_1200	CPU 1211C DC/D	1 X1	PN/IE	10.0.1	13.91	PN/IE_1	
		Type of the PG/PC interface:		PN/IE				
	PG/PC interface: 🕅 🐻 Wintun Userspace 1			serspace Tur	inel		) 💎 💽	
	Connection to interface/subnet: Direct at slot '1 ×1'				t '1 X1'		•	۲
	1st gateway:							۲
						,		
	Select target device: Show devices with the same addresses							sses 🔻
	Device	Device Device type		Interface type A		Address Target dev		ce
	PLC_1200	CPU 1211C DC/D	PN/IE		10.0.13.91		PLC_1200	
E C	-	-	PN/IE		Access add	lress	-	
Flash LED								
							Start	search
Online status informatio	n,				🖂 Disol	av only error	messages	
Scan completed 1	compatible devices of 1	accessible devices fou	nd			-,,		A
a start completed. I compatible devices of raccessible devices round.								
Scan and information retrieval completed.								
-	·							~
Load Cancel								

#### Status CPU 1200 – data block tank data [DB5]

PL	012	200	) → PLC_1200 [CPU 12]	I I C DODOD	C] → Pro	gram blo	cks → Count	erData [DB5] 📃 🖬 🖬 🗙
		:						
1	📝 🔮 🐛 🌄 🚞 🚏 Keep actual values 🔒 Snapshot 🤏 🧠 Copy snapshots to start values 🔹 🕵 🔭 🔁							
CounterData								
		Na	me	Data type	Offset	Start val.	Monitor value	Comment
1		•	Static					
2	-		MinNo1200	Int 🔳	0.0	1000	100	minimum counter reading (number)
3		•	MaxNo1200	Int	2.0	10000	8000	maximum counter reading (number) 📃
4		•	Count1200	Bool	4.0	false	TRUE	Counter is counting
5		•	CountingON1200	Bool	4.1	false	TRUE	Enable counting
6		•	CounterValue1200	Int	6.0	0	4493	CounterValue

## S5 for Windows – CPU103-S5++ IoT – IP address 10.0.13.94



## Status S5 CPU 103

🔚 S5/S7 for Windows® - Counter S5W A:\Counter S5W.	5P	– 🗆 X					
File PLC Block Edit InsertCtrl+V Presentation	ind View Window Help						
i 📼 🎟 🛛 🕰 🔩 🥔 🌌 🎎 📾 👹							
Online 🔫 A 🗙	4 DB 2 Status x	4					
S R   FS FR   🕱   🗗 📓   🔐   🐓	DB2 + 🛛 👫 + 🗐 😚 S R V 🗣	a ≑ STL CSF LAD					
Internal S5 PLC simulation	• • • • • • •						
Internal S7 PLC simulation							
	- Title: Counter values	<del>_</del>					
E- PLC 90/95/100 U (CPU 103)	Address Contents Comment						
Used operands	0 KF +100 ; minimum numerical valu	S7 CPU 1					
E Free operands	1 KF +8000 ; maximum numerical value S7 CPU 1 2 KF +4234 : numerical value S7 CPU 1						
H-La Program structure							
⊕ 🖟 loT CPU416		•					
	PC block list	<b>▼</b> # ×					
	🔁 🖅 🧀 🎒 📲 🍱 😭 🚱 All blocks 💽	47 Marked: 1 total: 6   Code length marke					
Generation port (COM1)	Block Symbol Length Last Modi	fication Description					
	OB 1 Cycle 24 30.07.2020	17:28:27 Cycle					
	OB 21 42 30.07.2020 OB 22 42 30.07.2020	17:50:56					
	FB 5 CounterControl 86 30.07.2020	17:54:24 Counter control					
	DB 2 CounterValues 16 30.07.2020	15:38:33 Counter values					
	BB 1 110 30.07.2020	17:52:47					
Offline	PC block list PLC block list	,					
Unine Unine							
	PLC 90/95/100 C	CAPS NUM RF INS					