

Username: Password: Login Cancel	
	Juur Madrie Spectroscopy Factorer V2.01.46.1

TID Plus Software

Installation and Setup Guide



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1. General

a. Scope and Software Versions

This installation and setup guide details the intended installation, configuration, and operation of below software versions:

- TOS Plus_2.01.118.0 as installed on the TacticID[®] Plus device
- **TID Plus_2.01.46.1** to be installed on the PC

To ensure compatibility for software operation, you <u>MUST</u> use matching versions of TID Plus on the PC and TOS Plus on the device as indicated in the Packing List or Release Note.

b. Operating System Compatibility

The following Microsoft operating systems have been verified compatible with this software:

- Windows 7 SP1, 64 bit
- Windows 8, 64 bit
- Windows 10, 64 bit

c. Minimum Hardware Requirement

Your PC's hardware configuration must meet or exceed the following specifications:

- Processor: 2GHz
- RAM: 2GB
- Hard disk space: 5GB available

d. Installation Package

Upon delivery of the TacticID[®] Plus Handheld Raman System, locate the USB drive included in the shipping box. This USB drive contains all manuals, software packages and necessary supporting documents and programs.

If the USB drive cannot be located, you may request a file download by submitting a Technical Support Request at http://www.bwtek.com/support/.

Fill out all required fields and be sure to also include the below information in the Questions/Comments section:

• This is a request for product registration and portal account access;



- The current TOS Plus version on the TacticID[®] Plus unit;
- The current TID Plus version installed on your PC (if any).

Once your request has been authenticated, your customer portal account will be created and login information sent to your email to allow download access at any time.

2. Installation Procedure

a. Installation Prerequisites

The following requirements must be met to ensure proper software installation and operation, and these required installation components are included in the USB drive provided by B&W Tek. Please copy the "TID Plus Installation" folder to local PC.

- The user <u>MUST</u> have Windows Administrative privilege on the Windows computer to install and configure the software;
- 2. Internet access is required during the installation of software;
- 3. .Net Framework 4.6.2 or newer is required for running this software: Installer will automatically detect if the proper version of *.net Framework* has been installed on PC already. If *.Net Framework 4.6.2* cannot be automatically installed, please refer to Appendix I.
- 4. *Microsoft Visual C++ 2013 Redistributable (x64) (version 12.0.30501* or newer) is required, which is located in the folder TID_Plus_Installation\Prerequisites\;
- 5. *Microsoft Visual C++ 2013 Redistributable (x86) (version 12.0.30501* or newer) is required, which is located in the folder TID_Plus _Installation\Prerequisites\;
- 6. *Microsoft Visual C++ 2015 Redistributable (x64) (version 14.0.23026* or newer) is required, which is located in the folder TID_Plus _Installation\Prerequisites\;
- 7. *Microsoft Visual C++ 2015 Redistributable (x86) (version 14.0.24215* or newer) is required, which is located in the folder TID_Plus_Installation\Prerequisites\.

For further help, please contact B&W Tek Support at http://www.bwtek.com/support/

b. MySQL Server Installation and Configuration

MySQL Server provides the backbone database services for the TacticID[®] Plus product. Installation and configuration are required on computer to be used for database service.

MySQL Server installer will automatically check if your PC meets all prerequisites. If a compatibility screen displays during installation, click on "Execute" to install.



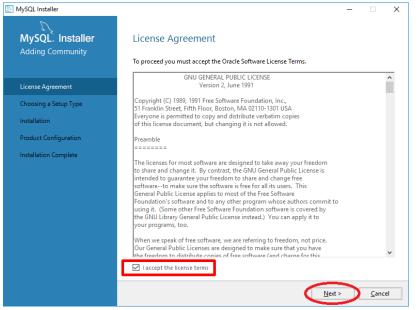
Please follow the steps from Page 5 to Page 16 to fully install the TID software. Skipping any operation or screen will cause installation or later launch FAILURE!

The version listed below has been verified to be compatible with TID Plus.

• MySQL community 5.7.18.0 or newer

<u>NOTE</u>: If a proper version of MySQL Server is already installed, skip MySQL Server installation. After confirmation of the MySQL Server configuration settings, continue with TID Plus Installation and Configuration in Section 7.

- In the folder of TID Plus Installation\MySQL Server\, launch mysql-installer-community-5.7.18.0.msi: (If you do not get one, you can download the community version from the following link: <u>https://dev.mysql.com/downloads/windows/installer/8.0.html</u>)
- License Agreement: Make sure "I accept the license terms" is checked. Then click Next.





• Choosing a Setup type: choose "Server only" at Setup Type. Then click Next.

MySQL Installer		- 🗆 X
MySQL. Installer Adding Community	Choosing a Setup Type Please select the Setup Type that suits your use	e case.
License Agreement		Setup Type Description
Choosing a Setup Type	MySQL development purposes.	Installs only the MySQL Server. This type should be used where you want to deploy a MySQL Server, but will not be developing MySQL
Installation	Server only	applications.
Product Configuration	Installs only the MySQL Server product.	
Installation Complete	 Client only Installs only the MySQL Client products, without a server. Full Installs all included MySQL products and features. Custom Manually select the products that should be installed on the system. 	2
		< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

• Installation: click Execute to start installation of MySQL Server.

NySQL Installer			-		×
MySQL. Installer Adding Community	Installation Press Execute to upgrade the following	g products.			
	Product	Status	Progress	Notes	7
License Agreement	MySQL Server 5.7.18	Ready to Install			
Choosing a Setup Type					
Installation					
Product Configuration					
Installation Complete					
	Click [Execute] to install or update the f	following packages			
		< <u>B</u> ack E	<u>x</u> ecute	<u>C</u> ance	



• After the installation is completed, a green check will appear. Click Next to start the MySQL configuration:

NySQL Installer			-		×
MySQL. Installer	Installation				
Adding Community	Press Execute to upgrade the following p	roducts.			
	Product	Status	Progress	Notes	
License Agreement	MySQL Server 5.7.18	Complete			
Choosing a Setup Type					
Installation					
Product Configuration					
Installation Complete					
	Show Details >				
		< <u>B</u> ack	<u>N</u> ext >	Canc	el

• On the page "Type and Networking": set "Config Type" as "Server Machine", and keep other settings as shown below. Then click Next.

MySQL Installer					-		×
MySQL. Installer	Type and Network	ing					
MySQL Server 5.7.18	Server Configuration Type						
	Choose the correct server cor define how much system		his MySQL Se the MySQL			setting wi	ill
Type and Networking	Config Type: Server Machin	ne	\sim	1			
Accounts and Roles	Connectivity			-			
Windows Service	Use the following controls to	select how you wou	ld like to con	nect to this s	erver.		
	TCP/IP	Port Number:	3306				
Plugins and Extensions	Open Firewall po	rt for network access	;				
Apply Server Configuration	Named Pipe	Pipe Name:	MYSQL				
	Shared Memory	Memory Name:	MYSQL				
	Advanced Configuration						
	Select the checkbox below to options for this server instance		guration page	e where you o	an set ad	vanced	
	Show Advanced Opt	ions					
				-			
)			
				_			
					~		
				<u>N</u> ext	~	<u>C</u> ance	2

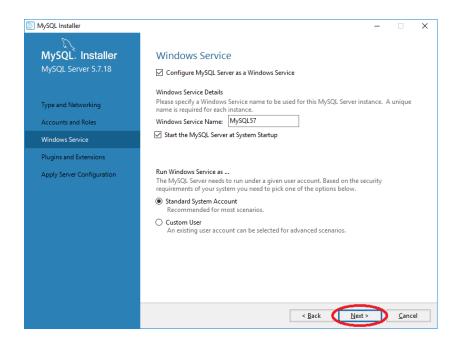


• On the page of "Accounts and Roles": create a MySQL Server Root Password.

Please Document this password and store it securely!!!

MySQL Installer	- 🗆 X	_
MySQL. Installer MySQL Server 5.7.18	Accounts and Roles Root Account Password Enter the password for the root account. Please sum where the tore this password in a secure place.	
Type and Networking	MySQL Root Password:	
Accounts and Roles	Repeat Password: Password Strength: Weak	
Windows Service		
Plugins and Extensions	÷	
Apply Server Configuration	MySQL User Accounts Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges. MySQL Username Host User Role Add User Edit User Delete	
	2	
	< Back Next > Cancel]

• On the "Windows Service" page: keep default configurations. Then click Next.





• On the "Plugins and Extensions" page: configure to Enable X Protocol and specify Communication Port number 33060. Select Open Firewall port for network access. Then click Next.

NySQL Installer	- 0	×
MySQL. Installer	Plugins and Extensions	
MySQL Server 5.7.18	MySQL as a Document Store Use the following controls to select how you would like to connect to this server.	
Type and Networking Accounts and Roles Windows Service	✓ Enable X Brotocol / MySQL as a Document Store Port Number: 33060 ✓ Open Firewall port for network access Starting mater wySQL Server 5.7, MySQL supports document store development. In	
Plugins and Extensions Apply Server Configuration	order to provide a complete document store/NoSQL experience there is a new communications protocol called the X Protocol. The expanded capabilities of the X Protocol collect the X protocol enable us to provide modern developer APIs with features such as asynchronous calls, pipelining, and more. In addition to implementing document collections, the new X DevAPI also supports relational and combined document store/relational capabilities. Now developers, designers and DBAs can deploy MySQL databases that implement document store, relational, or hybrid document/relation models.	
	<u>Click here to view MySQL as a Document Store online documentation</u>	
	3	
	< Back Next> Cancel	

• On the "Apply Server Configuration" page click Execute. This will take some time while it goes through the list of configuration steps until all items are configured and checked. No action is required during configuration.

Press [Execute] to apply the changes Configuration Steps Log Stopping Server [if necessary] Writing configuration file Updating firewall Adjusting Windows service [if necessary]
 Stopping Server [if necessary] Writing configuration file Updating firewall
 Writing configuration file Updating firewall
O Updating firewall
 Adjusting Windows service [if necessary]
O Initializing Database [if necessary]
O Starting Server
 Applying security settings
O Creating user accounts
O Updating Start Menu Link
O Updating Firewall for MySQL Document Data Feature Set
< Back Execute Cancel



• Configuration is done when all the items are checked. Click Finish.

MySQL Installer		-		×
MySQL. Installer MySQL Server 5.7.18	Apply Server Configuration The configuration operation has stopped.			
Type and Networking	Stopping Server [if necessary]			
Accounts and Roles				
Windows Service				
Plugins and Extensions	 Adjusting Windows service [if necessary] 			
Apply Server Configuration	 Initializing Database [if necessary] 			
	Applying security settings			
	Creating user accounts			
	Ø Updating Start Menu Link			
	Configuration for MySQL Server 5.7.18 has succeeded. Please click Finish to continue.	(<u>E</u> inisl	

• On the "Product Configuration" page: MySQL configuration completion is confirmed. Click Next.

S MySQL Installer		– 🗆 X
MySQL. Installer Adding Community	You can cancel at any point if you wish	n wizard for each of the following products. n to leave this wizard without configuring all the
License Agreement	products.	
Choosing a Setup Type	Product MySQL Server 5.7.18	Status Configuration Complete.
Installation	MysqL server 5.7.10	coniguration complete.
Product Configuration		
Installation Complete	¢	>
		Next > Cancel



• On the "Installation Complete" page: click Finish to complete MySQL Server installation. MySQL Server is now installed and configured.

MySQL Installer	- 0
MySQL. Installer	Installation Complete The installation procedure has been completed.
License Agreement	Copy Log to Clipboard
Choosing a Setup Type	
Installation	
Product Configuration	
Installation Complete	
	Einish
	Einish

c. TID Plus Installation and Configuration

After successful installation and configuration of MySQL Server, TID Plus software needs to be installed and configured:

a) In the folder \TID_Plus_Installation\TID Plus Software\ -> launch *setup.exe* by right-clicking the

icon and Run as administrator.

🗧 🚽 🍷 🛧 📒 🐖 TID Installation n	anual > TacticID Plus > TID >	TID PlusV2.01.45			~ Ö	Search	TID PlusV2.01.45	1 8
Documents Pourloads Pourloads Pourloads Pourloads Pourloads Pourloads Pourloads Pourloads Pourloads Documents Documents Documents Documents Pourloads Music Pourloads Pourloads Pourloads Music Pourloads Pourloads Pourloads Music Pourloads Pourloads		>	PM PM PM	Type File folder File folder Configuration sett Application Application Configuration sett Windows Installer		22 K8 1,896 K8 1,412 K8 967 K8		
7 items 1 item selected 1.37 MB	Paste Create shortcut Delete							0



b) You may be required to install certain programs onto your computer. Click Install and reboot your computer if required.

D Plus - I	nstallShield Wizard
	ID Plus requires the following items to be installed on your computer. Click Install to egin installing these requirements.
Status	Requirement
Pending	Microsoft system CLR Types fo SQL Server 2014
	Install Cancel

c) Read and accept the end-user license agreement. Choose Complete Setup type and default installation location: C:\Program Files (x86)\BWTEK\TID Plus\.

TID Plus - InstallShield Wizard	X TID Plus - InstallShield Wizard X
License Agreement Please read the following license agreement carefully.	Setup Type Select the setup type that best suits your needs.
B&W Tek, LLC. Software License Agreement PLEASE READ THIS SOFTWARE LICENSE AGREEMENT CAREFULLY BEFORE DOWNLOADING OR USING THIS SOFTWARE. BY INSTALLING, COPYING, OR OTHERWISE USING THE SOFTWARE, YOU	Please select a setup type. Complete All program features will be installed. (Requires the most disk space.) Custom Select which program features you want installed. Recommended for advanced users.
I accept the terms of the license agreement I do not accept the terms of the license agreement InstallShield KBack Next> Cancel	Destination Folder Browse C.\Program Files (x86)\BWTEK\TID Plus\ Browse InstallShield < Back.

d) During the installation, the following screen MAY appear and installation may temporarily be held. Press any key to continue.





e) When installation is completed, click Finish:

TID Plus - InstallShield Wizard	InstallShield Wizard Complete The InstallShield Wizard has successfully installed TID Plus. Click Finish to exit the wizard
	< Back Finish Cancel

f) A message box shows up. For first-time installation, click "No" to exit; if this is software upgrade, click "Yes" and finish steps: h, m, n and o.

TID Plus - InstallShield Wizard	×
Would you like to launch TID Plus?	
Yes No	

g) Installation of TID software is successful on the PC. An icon of "TID Plus" will appear on the PC desktop. Right click "TID Plus" and left click on "Properties". Under Compatibility tab, check "Run this program as an administrator". Click Apply and then OK. If it's already checked, click OK to exit.

Security	Details	Previous Versi	ione
General	Shortcut	Compatib	
y running the con	working correctly on t npatibility troubleshoot		ows,
	ty troubleshooter	anually?	
	ram in compatibility mo	ode for:	
Windows 8		\sim	
Settings			
Reduced col 8-bit (256) color			
	480 screen resolution		
Disable fullsc	reen optimizations		
Run this prog	ram as an administrato	or	
Change hi	igh DPI settings		
Change set	tings for all users		



h) Launch TID Plus software from desktop, TID Plus login screen appears; enter user name: "IT ADMIN" with default password "999999", and click Login to continue.



i) Configuration table appears for IT management:



- j) IT page is for IT administrator to reset password;
- k) Configure database is listed as below:
 - User name: root
 - Password: the password created during MySQL installation in Section 6.
 - Server address: localhost
 - Port: 3306



п		
Change Password		
Configure Database		
Service Setup		
	User Name root	
	Password	
	Server Address localhost	
	Port 3306	
	OK	

I) After clicking OK a message indicating the database has been configured successfully will appear.

	User Name	
Database config	Ured successfully	
	locamost	
	Port	

m) In Service Setup, click Create/Update Database and a message will pop up: "Database created successfully". Click OK to continue;

Г			
hange Password			
onfigure Database			
ervice Setup			
		Create/Update Database	
		Picture Directory	- And -
		Backup Directory	A Mar
		Library Directory	Jan P
		Start Service	
	×	Stop Service	
	Database created successfully	Default Configuration	
	x		



n) Select "Stop Service". A message "Would you like to stop service?" appears. Click OK.



o) Select "Start Service". A message "Would you like to start service?" appears. Click OK.

π			
Change Password			
Configure Database			
Service Setup			
	× ×		
			A MOINT O
	$n \rightarrow 1$	Create/Update Database Picture Directory	
	N- A	Backup Directory	in the second second
	1 mil	Library Directory	
		Start Service	
	×	Stop Service	
	Would you like to start service ?		
	and the page and the state state of the	Default Configuration	
	OK Cancel		
	1.000		
	7 La		
	MOIN		
	Ho L		
See Mark Susange Trake	nt logged in to TID: IT ADMIN ()		

<u>Note</u>: these next two steps are to ensure Windows service of "TID Plus Database Service" is running successfully.

p) In Windows Search Bar, type in "Computer Management". In the "Services and Applications" panel to the left, click on "Services", or directly search "Services". In the services list, find "TID Plus Database Service" and confirm it is Running.

Services (Local)	Services (Local)						
	TID Plan Database Service Stop the service <u>Better</u> the service Description: TID Plan Database Service V2.01.18.1	Name System Even NotKaston S System Event NotKaston S System Events Broker System Guard Runtime Me Tak Scheduler TONIP NetBIOS Heiper C Telephony Themes	Description Maintains a Monitors ay- Coordinates Monitors an Enables a ut Provides Sa Provides Tel Provides Ut Provides Ut	Running Running Running Running	Stanup Type Automatic Automatic Automatic (T., Automatic (D., Automatic Manual (Teg., Manual Automatic	Log On As Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste	
		TID Pus Database Service	TO Rus Dat.			Local System	
		Touch Knybord and Hand Touch Knybord and Hand Update Orchestrator Service UnP Data Concest, 637666 Uner Data Storage, e52666 Uner Data Storage e52667 Uner Nata Sancia Vinual Studie Sonice Vinual Studie 2015 Remote Vinual Studie 2015 Remote Vinual Studie 2015 Remote Vinual Studie 2015 Remote	Enables Tou Manages W Allows UPn Provides ap Handles stn User Manag This service Provides m Allows me Visual Studi	Running Running Running Running	Manual (Ing Manual (Trig Automatic (D Manual Manual Automatic (T Automatic Manual Disabled Manual	Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste	

q) Exit TID Plus Configuration window.

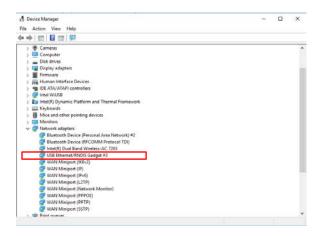


3. Additional Steps

a. Device USB Driver Installation

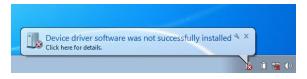
If USB connection is used to connect the TacticID[®] Plus device and TID Plus on PC, the device driver needs to be installed on the PC. Generally the device driver will be installed on the PC automatically once the connection is established between the device and the PC using the USB cable shipped within the package. The following steps will guide the users to check whether or not the device driver installation is completed.

- 1. Power on the TacticID[®] Plus device;
- 2. Insert one end of the USB cable into the MicroUSB port of the TacticID[®] Plus device and insert the other end into a USB port on PC;
- 3. A message "a device is plugged in and may need further configuration" may appear. Wait until the driver is installed automatically on computer with a message "device is configured/installed and ready to use";
- Another message may show up indicating the device is installed as "USB Ethernet/RNDIS Gadget";
- To confirm the device driver is installed successfully, go to Windows Search Bar and type "Device Manager". The device driver is installed successfully when "USB Ethernet/RNDIS Gadget" is listed under Network Adaptors.



6. Manual driver installation:

Some computers with Windows 7 or Windows 8 operating systems (and some Windows 10 operating systems) will need manual installation of the device driver. Follow instructions listed below:





- a. If USB driver cannot be installed automatically, perform operation steps 1-3 listed above;
- b. In Windows search bar type "Device Manager" and find the malfunctioning USB device RNDIS/Ethernet Gadget:

File Action View Help	
🖌 🚔 testing-PC	
Batteries	
⊳ 📲 Computer	
Disk drives	
🔈 📲 Display adapters	
DVD/CD-ROM drives	
DE ATA/ATAPI controllers	
Imaging devices	
Keyboards	
Mice and other pointing devices	
Monitors	
Network adapters	
a 🗓 Other devices	
📠 Network Controller	
RNDIS/Ethernet Gadget	
Portable Devices	
Processors	
Sound, video and game controllers	
⊳ 🚛 System devices	
🔊 🏺 Universal Serial Bus controllers	

c. Right click this device and select Update Driver...

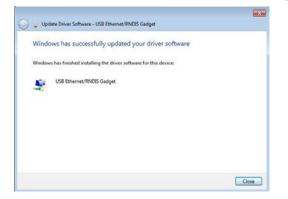
0	<u>[</u>] L	pdate Driver Software – RNDIS/Ethernet Gadget	×
	How	do you want to search for driver software?	
	•	Search automatically for updated driver software Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.	
	+	Browse my computer for driver software Locate and install driver software manually.	
			Cancel



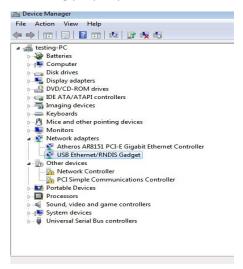
d. Select Browse my computer for driver software and direct to the folder of RNDIS driver in the TID Plus installation folder:

	Browse For Folder X	×.			×
🗕 📱 Updat	Select the folder that contains drivers for your hardware.		÷	Update Drivers - USB Ethernet/RNDIS Gadget	
Browse	Share Folder to Ubuntu			Browse for drivers on your computer	
Search for	✓ TacticID Plus_1.01.45.1 Installation FL			Search for drivers in this location: NTecticID Plus 1014511 Installation FDVRNDIS driver/Win76Win10 V Browse	
C:\Users\	Prerequisites RNDIS driver Win7&Win10 TaticID Plus_1.01.45.1	Browse		<u>BARECERI de anna de de Santacia i so de Voir Santacia Vando v</u> Enclude subfolders	
→ Le Thi san	Music Pictures Vin/3win 10	computer nd all drivers in the		→ Let me pick from a list of available drivers on my computer This first will show available drivers compatible with the device, and all drivers in the same category as the driver.	
	OK Cancel	Next Cancel		Net	ancel

e. Click Yes and then wait until driver is installed successfully onto computer:



f. Go back to Device Manager and confirm the USB Ethernet/RNDIS Gadget driver is installed and running properly:





b. Firewall Configuration

<u>Note</u>: Please present this document to your IT administrator. Use the procedure to check or set firewall configuration only when the connection cannot be established between TacticID[®] Plus device and PC where TID Plus is installed.

This procedure is to ensure proper communication can be established between TacticID[®] Plus device and PC with TID Plus. Certain network traffic rules and Windows Firewall Settings need to apply as **Third Party Antivirus or Firewall** software (such as McAfee, Norton Endpoint...etc.) may block or conflict with the communication between the device and software. Consult your IT Department for firewall configuration.

• Communication Port Requirement

The TacticID[®] Plus product uses several specific communication ports to establish communication between database services and that between the device and PC. These communication ports need to be **OPEN** and allow **BOTH TCP and UDP** protocols. **Third Party Antivirus or Firewall software or other application software** may block or conflict with the communication between the device and software. Consult with your IT Department. The below lists specific ports that are used:

MySQL Server:

• TCP: 3306, 33060

TID Plus:

- TCP: 12201, 8732
- UDP: 12202, 12203
- Allow Programs in Windows Firewall
 - 1. Allow TID Plus in Windows Firewall. Open Windows Firewall in Control Panel. Click "Allow a program or feature through Windows Firewall":

Control Panel Home	Help protect your computer with Wi	ndows Firewall
Allow a program or feature through Windows Firewall	Windows Firewall can help prevent hackers or n through the Internet or a network.	nalicious software from gaining access to your computer
Change notification settings	How does a firewall help protect my computer?	
Turn Windows Firewall on or off	What are network locations?	
Restore defaults	Home or work (private) netw	vorks Connected 📀
Advanced settings	Networks at home or work where you know an	d trust the people and devices on the network
Troubleshoot my network	-	
	Windows Firewall state:	On
	Incoming connections:	Block all connections to programs that are not on the list of allowed programs
	Active home or work (private) networks:	BWTEK 3
		BWTEK_EMPLOYEE
	Notification state:	Notify me when Windows Firewall blocks a new program
	Public networks	Not Connected



2. Click "Change settings", and then find **Client**. Enable both Home/Work (Private) and Public categories, and check the checkbox. Click OK to exit.

) X
$\leftarrow \rightarrow \checkmark \uparrow$ 💣 « Windows Defender Firewall \Rightarrow Allowed apps \checkmark \bigtriangledown	Ą
Allow apps to communicate through Windows Defender Firewall To add, change, or remove allowed apps and ports, click Change settings.	1
What are the risks of allowing an app to communicate?)
Allowed apps and features:]
Name Private Public Ø @(Microsoft.AAD.BrokerPlugin_1000.10240.16384.0_neutral_neutral_cw5n1h2 Ø Ø @(Microsoft.Windows.Cortana_1.4.8.152_neutral_neutral_cw5n1h2byewy?ms Ø Ø 30 Builder Ø Ø Allloyn Router Ø Ø Allloyn Router Ø Ø Captive Portal Flow Ø Ø Cient Ø Ø Connect Ø Ø Contana Ø Ø Cotanaa Ø Ø Cotanaa Ø Ø Cotanaa Ø Ø Cotanaa Ø Ø Cotatine PowerDirector Ø	
Allow another app]
OK Cancel]

In some scenarios when Client.exe is not listed, the user has to add it in manually: click "Allow another app..." and find program in the directory. Typical path would be C:\Program Files (x86)\BWTEK\TID Plus\TID Client unless installed otherwise; enable both private and public as shown above:

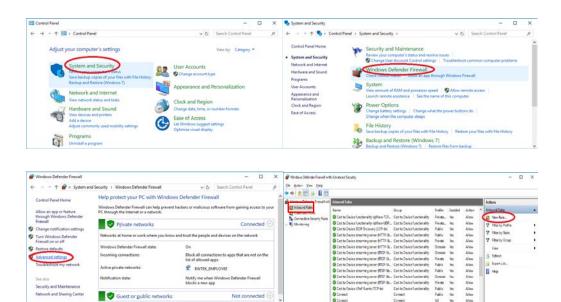
Allow apps to o	communicate through Windows Defender Firewall						
	Add an app X	L		-			
What are the risks	Select the app you want to add, or click Browse to find one that is not	Ch I	inge sét	tingt			
Allowed apps an	listed, and then click OK.						
Name		te	Public	^			
©{Microsoft ©(Microsoft	Clent	F					
2 C(Microsoft		L					
Ø @(Microsoft		L	R				
@(Microsoft @@(Microsoft		L					
Ø(78E1CD88-4		L					
3D Builder		L					
Alloyn Rout		L					
Android Stu App Installer	Path: Im Files (x86)/(IWTEK(TID Plus(TID Client.exe) Branse		E E	~			
	What are the risks of unblocking an app?	in.	Remo				
	You can choose which network types to add this app to.	E					
	Network types Add Cancel	an	other ap	p			
		1					



• Windows Firewall Rule Configuration

Guest or gublic networks

1. In Control Panel -> System and Security -> Windows Defender Firewall -> Advanced settings -> Inbound Rules -> New Rule.



2. On the "Rule Type" page, select "Port" -> Next -> Choose "TCP". In "Specific local ports", enter: 12201, 8732 -> Next.

Not co

P New Inbound Rule Wi	zerd		ard	×
Rule Type		Protocol and Ports		
Select the type of firewall rule	to create.	Specify the protocols and ports	to which this rule applies.	
Steps:		Steps:		
Pule Type	What type of rule would you like to create?	 Rule Type 	Does the rule apply to TCP or UDP?	
Protocol and Ports		Protocol and Ports	() ICP	
 Action 	O Brogram	 Action 	C TOP	
Profile	Rule that controls connections for a program.	a Profile		
 Name 	Port Port Office Connections for a TCP or UDP port.	 Name 	Does this rule apply to all local ports or specific local ports?	
			O All local ports	
	Prgdefined: Allow Rober		Specific local ports: 12201,8732	
	Rule that controls connections for a Windows experience.		5 mm/s 10,443, 5000-5010	
	O Custom			
	Custom rule.			
	2			
	< Bick Next> Cancel		< Back Next > Cancel	



3. On Action page, choose "Allow the connection" -> Next. In Profile page, check Domain, Private, Public -> Next.

P New Inbound Rule Wi	zard)	×	Province and Rule Witard	>
Specify the action to be taken Steps: a Ruto Type a Putco Type a Putco and Pots a Action a Pots a Name	In when a convection matches the conditions guedified in the nate. What action whold be taken when a convection matches the specified conditions? The Convection of the convection of the protected with Place as well as those are not. Convection of the convection of the second of the convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and Place protected and rules in the Convection Security and rules and rules in the Convection Security and rules and rules and rules and rules in the Convection Security and rules and ru		Specify the profiles for which this rule applies. State Ref Type Ref Type Ref Ty	
	(Box (Ber) Const		< Beck	2 Den 3 Cancel

4. On Name page, name it "TacticID Plus TCP" -> Finish. Then Create another New Rule -> Select "Port" -> Next.

New Inbound Rule Wizard Name Specify the name and description of this rule.		×
Alexity from the set of exception of the first. State: Ref:: Ref:	Sec: Inf your What type of rule would you like to creater? Protoci and from What type of rule would you like to creater? Protoci and from Pack that controls connections for a program. Pack Period Name Period Protoci and from Period Pack that controls connections for a TCP or UDP pot. Period Protoci More fromter Name Period Operation Rule that controls connections for a Windows experience. Operation Quetors rule.	Cancel

5. Choose "UDP". In "Specific local ports", enter: **12202**, **12203** -> Next. 3. On Action page, choose "Allow the connection" -> Next.

New Inbound Rule Wiz Protocol and Ports Specify the protocols and ports		 New Inbound Rule Wizar Action Specify the action to be taken will 	d	×
Steps: a Pute Type a Protocol and Pots a Action a Protic a Marie	Does this note apply to all local ports or specific local ports? All local ports Specific local ports Location Specific location Sp	Steps: a Ruis Type a Protocol and Ports a Aston a Profile a Name	What action should be taken when a connection matches the specified conditions?	
	<back test=""> Cancel</back>		< Bask Neet > Cancel	



6. On Profile page, check Domain, Private, Public -> Next. Then Name it "TacticID Plus UDP" -> Finish.

New Inbound Rule With Profile	zard	X Prew Inbound Rule Wizard	>
Specify the profiles for which t	this rule applies.	Specify the name and description of this rule.	
Steps: Fluir Tpo Protocol and Pots Action Prode None None	When does this rule apoly?	Sept: a Adda b Trace and Ports b Addan b Ports c Rane Technology Port UOP Provide a destination	
	< Red. Net 5 Caro	1	<back canoel<="" finalh="" td=""></back>

7. User may configure Outbound Rules as well by repeating this procedure from 1 to 6.

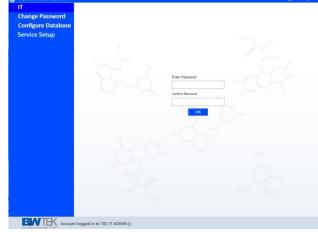
c. TID Login

TID Plus software accepts different levels of accounts login for data management:





a. The "IT ADMIN" account offers functions to configure IT settings shown in section 7.h);



b. Login as "TID ADMIN" with default password 999999 for first-time use when MySQL database has never been synchronized. After synchronization, this account will be disabled.

TID Plus Client V2.01.46.1		ev = 0 3
Device		
Sync		
	Selected:	
		Username:
		Username:
		Password:
	808	
		Logo Logou
	Check USB	
	Device Group:	
	in the second	
	107	
Just Plans (performed) Parties	ant logged in to TID: TID ADMIN (Administrator)	

c. Account of "ADMIN" and all user accounts are accepted for user login for data management when the database is initialized.

 TID Plus Client V2.01.46.1 Device 		DN - 1	o ×
Sync Update TOS			
Update Library			
Import Library	Selected:		
Record	~~~ I	Username:	
Library	ST -		
Perf. Validation	On c	Password:	
# Account		000 Internet	
	Check USB		
	8 10		
	Device Group:		
	Signat		
ENTER Acco	ount logged in to TID: ADMIN (Administrator)		



d. IP address configuration

Make sure Device is powered on and connected to PC where TID Plus is installed. Start TID Plus and log into server to reach interface as given below:



The button "Check USB" is activated when device is detected. Click this button and the IP address of this connection will be configured automatically.

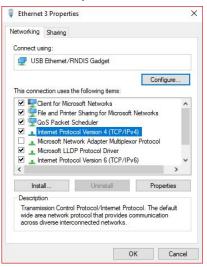
In some scenarios due to IT restriction, the automatic IP address configuration for USB connection will not work after clicking this button. In this case manual setup is required by authorized IT personnel:

 Go to "Network and Sharing Center" in Windows 10 or equivalent program in Windows 7 or 8, and find the network connection which is associated with this device. You can plug and unplug the USB to differentiate if there are multiple connections in your Network setting:

一 * 个 整 > Control P	anel > All Control Panel Items > Network and	I Sharing Center		
Control Panel Home	View your basic network information and set up connections View your active networks			
Change adapter settings				
Change advanced sharing	BWTEK 3	Access type: Internet		
settings	Public network	Connections: Wi-Fi (BWTEK)		
	Unidentified network Public network	Access type: No network access Connections: No network access Connections:		
	Change your networking settings			
	Set up a new connection or netw	ork		
	Set up a broadband, dial-up, or VPN connection; or set up a router or access point.			
	Troubleshoot problems			
		blems, or get troubleshooting information.		



2. Click the Connections for example Ethernet 3 shown above and then click Properties:



3. Select: Use the following IP address and configure as below. Contact B&W Tek for support if this IP address is not available on this computer.

nternet Protocol Version 4	(TCP/IPv4) Properties ×
General	
	igned automatically if your network supports you need to ask your network administrator ngs.
Obtain an IP address	automatically
• Use the following IP a	ddress:
IP address:	192.168.7.10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.7.1
Obtain DNS server add	dress automatically
Use the following DNS	server addresses:
Preferred DNS server:	192.168.7.1
Alternate DNS server:	
Validate settings upor	n exit Advanced
	OK Cancel

4. On the TacticID[®] Plus Device, log in with any valid user account, and go to Data Transfer and select the USB connection – so have green check mark next to it:

ADI	MIN	09:15 EDT 2019/05/13	200 77%
			*
			*



 The icon with the correct device SN will show up under Device Group in the TID Plus interface. The communication is established successfully.

Note: If icon does not show up under Device group, double check firewall setting and IP configuration, or call B&W Tek support for help.



6. Please note that this IP configuration is associated with a specific USB port. User must reconfigure this IP address for each port if switch automatically or manually.



4. Appendix I Microsoft Root Certificate Authority Update Instruction

The following information can be references for failure in installing .NET Framework 4.6.2:

The .NET Framework 4.5 redistributable was updated on October 9, 2012 to correct an issue related to an improper timestamp on a digital certificate, which caused the digital signature on files produced and signed by Microsoft to expire prematurely.

docs.microsoft.com/en-us/

This issue occurs when this certificate MicRooCerAut2011_2011_03_22.cer is missing particularly when you operate in an environment that's disconnected from the Internet or that has a firewall that blocks content from http://ctldl.windowsupdate.com. This behavior is due to recent changes to Microsoft Windows Enforcement of Authenticode Code Signing and Timestamping.

https://blogs.msdn.microsoft.com/

Here is the solution to manually import the missing certificate:

Step 1:

In your keyboard, press the **Win** key and **R** key at the same time to bring up the Run dialog. Enter **certmgr.msc** and click the **OK** button.

📨 Run	X
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
<u>O</u> pen:	certmgr.msc 🗸
	OK Cancel Browse

Step 2:

Right-click the "Trusted Root Certification Authorities", then click the "All Tasks", then "Import".

🚡 certmgr - [Certificates - Current User]				
File Action View	File Action View Help			
🦛 🄿 🔲 🖬 🖬				
Certificates - Curre	ent User	Logical Stor	e Name	
Fersonal Fersonal	Find Certificat	es	oot Certification Authorities	
 Intermedi Active Dir 	All Tasks	+	Find Certificates	
Trusted P	Refresh		Import	
 Image: Untrusted Image: Third-Par 	Help		Certificates	
Tusted People Certificate Enrollment Requee Smart Card Trusted Roots Certificate Certificate		rty Root Certification Authorities People te Enrollment Requests rd Trusted Roots		
< III	Þ	•	III	+
Add a certificate to a store				



Step 3:

Click the **Next** button on the Certificate Import Wizard, then use the **Browse** button to locate the certificate file in the installation folder of Prerequisites, then click the **Next** button on all of the following pages. On the last page, click the **Finish** button. If a security warning pops out to let you that you are installing the Microsoft Root Certificate Authority 2011, Click the **Yes** button to complete the import.

Certificate Import Wizard		Certificate Import Wizard
	Welcome to the Certificate Import Wizard	File to Import Speafly the file you want to import.
	This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store. A certificate store. A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connectons. A certificate store is the system area where certificate are kept. To continue, click Next.	Ele name: F:WySQL Server\Optional\WicrosofRootCertificateAuthority201L Note: More than one certificate can be stored in a single file in the following formats: Personal Information Exchange- RKCS #12 (JPX, P12) Cryptographic Message Syntax Standard-PKCS #7 Certificates (.P78) Microsoft Serialized Certificate Store (.SST)
	< Back Next > Cancel	Learn more about <u>certificate file formats</u> <
Certificate Import Wizard Certificate Store Certificate stores are sy	vstem areas where certificates are kept.	Certificate Import Wizard Completing the Certificate Import Wizard
the certificate. Automatically sel Equation of the second secon	ertification Authorities Browse	The certificate will be imported after you click Finish. You have specified the following settings: Certificate store Selected by User Content Certificate File Name Fil/MySQL Server/Opt
	< Back Next > Cancel	< Back Finish Cancel
Certi	ficate Import Wizard	Security Warning Image: Security Warning Vou are about to install a certificate from a certification authority (CA) claiming to represent: Microsoft Root Certificate Authority 2011 Windows cannot validate that the certificate is actually from "Microsoft Root Certificate Authority 2011", You should confirm its origin by contacting "Microsoft Root Certificate Authority 2011", The following number will assist you in this process: Thumbprint (shal): BF4328A D272F310 3B6FB142 8485EA30 14C0BCFE Warning: If you install this root certificate, Windows will automatically trust any certificate issued by this CA. Installing a certificate wind what nuconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this risk. Do you want to install this certificate?
		<u>Y</u> es <u>No</u>

Step 4:

Locate **NDP462-KB3151800-x86-x64-AllOS-ENU.exe** in the folder TID_Plus_2.01.46.1 Installation\MySQL Server\. Right click this program and **Run it as administrator** to install;



5. Appendix II Frequently Asked Questions

1. What if Device is identified as USB Serial device (COM port) and not as RNDIS device? Solution:

a) locate the file "5-runasadmin_register-CA-cer.cmd" in the folder TID_Plus_2.01.45.1

Installation\ Prerequisites\, right click this file and Run it as administrator;

b) in Device Manager, find this device and right click to update driver;

c) Manually locate the folder of TID_Plus_2.01.45.1 Installation\ Prerequisites\

kindle_rndis.inf_amd64-v1.0.0.1\ and click Next;

d) Device is recognized successfully as "Kindle USB RNDIS Device(USBNetwork enabled).

2. What if TID Plus Database Service cannot start in Windows Services? Solution:

Most of the time this is due to the port conflict between TID Plus and other software preinstalled on the same computer. The list of ports used in TID Plus software is provided in section 9 of this document. Disable other services which are conflicting. So far HP JumpStart has been identified as a conflicting app, but we will update this list continuously.

3. What if after connecting TacticID[®] device to PC and login to both TOS and TID software, the device SN does not show up in the Device Group? Solution:

a. In TOS/Data Transfer, go to the configuration page of selected connection to see if it is disabled, if yes enable it;

b. Check if switched to USB port other than the one connected before. If yes, click "Check USB" again;

c. In some scenarios, due to the restriction of IT setting, user may go to network and manually configure the IP address. Check relevant section of this document for details;

d. If connection is through Wi-Fi, check both Device and PC are under the same network;

e. Check firewall setting to make sure TID Plus program is allowed to go through firewall in both public and private network;

f. If MySQL service is located in another computer of the same network, make sure both computers have inbound/outbound rules set correctly.

4. What if I forget MySQL root password?

Solution:

Firstly, shut down service mysql57. Go to C:\ProgramData\MySQL\MySQL Server 5.7. *Note that ProgramData is a hidden folder*. Find the file my.ini, and open it and add one line skip-grant-tables below [mysqld]

[mysqld]

skip-grant-tables

Secondly, start service mysql57, by right, you can access the database, run mysql -u root -p in cmd under database directory to access the database. Typically the directory is C:\Program Files\MySQL\MySQL Server 5.7\bin, and then use the query below to update the password: update mysql.user set authentication_string=password('NEW_PASSWORD') where user='root'; The 'NEW_PASSWORD' should be the new password you want to set.

Finally, shut down the service again. Remove the line 'skip-grant-tables' from my.ini and save it. Start the service again and try to use the password you set to login MySQL root.