

Device SN: Username:	
Password:	
	TactucID
	EWTEK
	Your Mobile Spectroscopy Partner V2.01.77.4

TID EX Software

Installation and Setup Guide



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1. Scope and Software Versions

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

- **TOS-1064_1.01.65.2 or higher** as installed on the TacticID-1064 device
- TID EX_1.01.20.33 or higher as installed on the PC

To ensure compatibility for software operation, you <u>MUST</u> use matching versions of TID EX on the PC and TOS-1064 on the device as indicated in the Packing List or Release Note.

2. Operating System Compatibility

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

- Windows 7 sp1, 64 bit
- Windows 8, 64 bit
- Windows 10, 64 bit

We recommend user to use windows system in English (United States) format settings to ensure compatibility with TID EX. There may be problem of the TID EX installation and functionality related to the local settings of the computer.

3. Minimum Hardware Requirement

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

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

4. Installation Package

Upon delivery of the TacticID-1064 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 below information in the Questions/Comments section:

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



- The current TOS-1064 and library version on the TacticID-1064 device;
- The current TID EX 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.

5. 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 "TID_EX_Installation" folder to local PC:

- 1. The user MUST have Windows Administrative privilege on the Windows computer to install and configure the software;
- Internet access is required during the installation of software;
- 3. .Net Framework 4.6.2 or newer is required for running this software:
 - a. Installer will automatically detect if proper version of .net Framework has been installed on PC already.
 - b. If not, locate NDP462-KB3151800-x86-x64-AllOS-ENU.exe in the folder TID_EX_Installation\Prerequisites\MySQL Server\. Right click this program and Run it as administrator to install.

A certificate from Microsoft is required for .net framework installation. Ensure that the operating computer has internet access. In the case where internet access is not available, please refer to Microsoft Root Certificate Authority Update Instruction in Appendix I.

- 4. Microsoft Visual C++ 2013 Redistributable (x64) (version 12.0.30501 or newer) is required, which is located in the folder ...\TID EX Installation\Prerequisites\.
- 5. Microsoft Visual C++ 2013 Redistributable (x86) (version 12.0.30501 or newer) is required, which is located in the folder ... \TID EX Installation \Prerequisites \.
- 6. Microsoft Visual C++ 2015 Redistributable (x64) (version 14.0.23026 or newer) is required, which is located in the folder ..\TID_EX_Installation\Prerequisites\.
- 7. Microsoft Visual C++ 2015 Redistributable (x86) (version 14.0.24215 or newer) is required, which is located in the folder ..\TID_EX_Installation\Prerequisites\.

For further help, please contact B&W Tek Support for assistance.

Please follow the steps below to fully install and configure the software. Skipping any operation or screen will cause installation or software FAILURE!



Please keep all username and/or password created during installation in safe and accessible location. B&W Tek is not responsible for account recovery!

6. MySQL Server Installation and Configuration

MySQL server provides the backbone database services for the TacticID[®]-1064 TID EX software product. Installation and configuration are required on the 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.

The versions listed below have been verified to be compatible with TID EX.

• MySQL community 5.7.18.0 or newer

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

- In the folder ..\TID EX Installation\MySQL Server\,, launch mysql-installer-community-5.7.18.0.msi;
- "License Agreement": Make sure "I accept the license terms" is checked. Then click Next;

MySQL. Installer	License Agreement	
	To proceed you must accept the Oracle Software License Terms.	
icense Agreement	GNU GENERAL PUBLIC LICENSE Version 2, June 1991	^
hoosing a Setup Type	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA	
nstallation	Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.	
roduct Configuration	Preamble	
nstallation Complete	The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software-to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too. When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute conjus of free software (and charne for this. Image: I cacept the license terms	v
	☑ I accept the license terms	



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

NySQL Installer		- 🗆 X
MySQL. Installer Adding Community	Choosing a Setup Type Please select the Setup Type that suits you	r use case.
License Agreement	O Developer Default	Setup Type Description Installs only the MySQL Server. This type should
Choosing a Setup Type	Installs all products needed for MySQL development purposes.	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.	
	O Full	
	Installs all included MySQL products and features.	
	O Custom	
	Manually select the products that should be installed on the system.	
	apacetti	2
		< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

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

MySQL Installer			-		×
MySQL. Installer Adding Community	Installation Press Execute to upgrade the following p	products.			
	Product	Status	Progress	Notes	
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 fol	lowing packages			
		< <u>B</u> ack	E <u>x</u> ecute	<u>C</u> anc	el



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

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

• "Type and Networking": set "Config Type" as "Server Machine", keep other settings as shown below. Click **Next**.

MySQL Installer	- 🗆 X
MySQL. Installer	Type and Networking
MySQL Server 5.7.18	Server Configuration Type
	Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system in concerning and to the MySQL Server instance.
Type and Networking	Config Tyle: Server Machine
Accounts and Roles	Connectivity
Windows Service	Use the following controls to select how you would like to connect to this server.
	TCP/IP Port Number: 3306
Plugins and Extensions	Open Firewall port for network access
Apply Server Configuration	Named Pipe Pipe Name: MYSQL
	Shared Memory Memory Name: MYSQL
	Advanced Configuration
	Select the checkbox below to get additional configuration page where you can set advanced options for this server instance.
	Show Advanced Options
	2
	2
	Next > Cancel



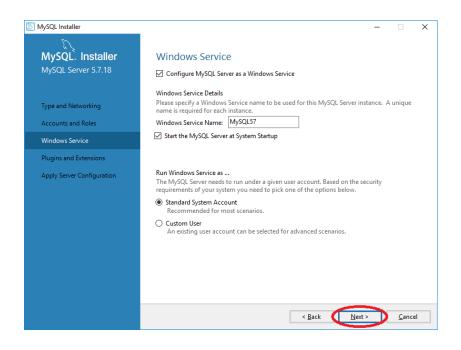
• "Accounts and Roles": create a MySQL Server Root Password.

This password must contain ASCII printable characters (uppercase, lowercase, numbers, or special characters). This password should not contain special characters that require a language pack.

***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 and the store this password in a secure place.
Type and Networking	MySQL Root Password:
Accounts and Roles	Repeat Password: Password Strength: Weak
Windows Service	Turning and guilt and a
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
	< <u>B</u> ack <u>Next</u> > <u>C</u> ancel

• "Windows Service": keep default configurations. Click Next.



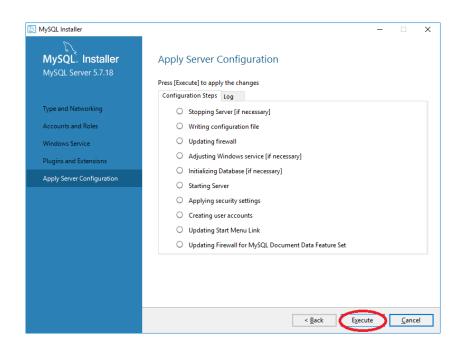


• "Plugins and Extensions": configure to enable X Protocol and specify "Port number" as 33060. Select "Open Firewall port for network access". Click **Next**.

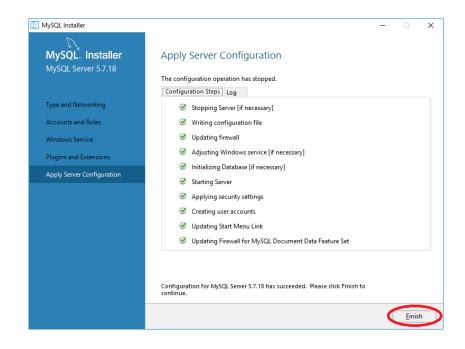
S MySQL Installer	_		×
R.Z.			
MySQL: Installer	Plugins and Extensions		
MySQL Server 5.7.18	MySQL as a Document Store		
	Use the following controls to select how you would like to connect to this server.		
Type and Networking	Enable X Diotocol / MySQL as a Document Store Port Number: 33060		
Accounts and Roles			
Windows Service	Starting networksQL Server 5.7, MySQL supports document store development. In order to provide a complete document store/NoSQL experience there is a new		
Plugins and Extensions	communications protocol called the X Protocol. The expanded capabilities of the X Protocol enable us to provide modern developer APIs with features such as asynchronous calls, pipelining, and more. In addition to implementing document		
Apply Server Configuration	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.		
	Click here to view MySQL as a Document Store online documentation		
	ן <u>כ</u>		
	y		
	< <u>B</u> ack Next >	<u>C</u> anc	el

• "Apply Server Configuration": 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.





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



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



MySQL Installer		- D >
MySQL. Installer Adding Community	Product Configuration We'll now walk through a configuratio	n wizard for each of the following products.
License Agreement	You can cancel at any point if you wish products.	n to leave this wizard without configuring all the
Choosing a Setup Type	Product MySQL Server 5.7.18	Status Configuration Complete.
Product Configuration		
Installation Complete		
	¢	>
		Next > Cancel

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

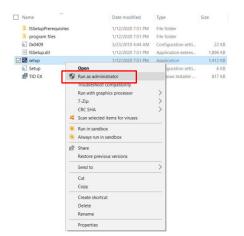
MySQL Installer	-		×
MySQL. Installer Adding Community	Installation Complete The installation procedure has been completed.		
License Agreement	Copy Log to Clipboard		
Choosing a Setup Type			
Installation			
Product Configuration			
Installation Complete			
	(Finish	-

7. TID EX Installation and Configuration

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



• In the folder \TID_EX_Installation\TID EX Software\, launch *setup.exe* by right-clicking the icon and **Run as administrator**. Click Yes if there is User Account Control confirmation box shows up.



• It may be required to install certain programs onto your computer. Click "Install" and reboot your computer if required.

Status	Requirement
Pending	Microsoft Visual C++ 2015 Update 3 Redistributable Package (x86)
Pending	Microsoft ReportViewer 2015
Pending	Microsoft system CLR Types fo SQL Server 2014

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





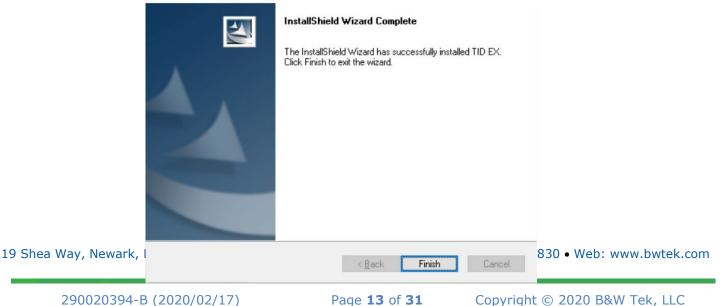
.icense Agreement Please read the following license agreement carefully.	24
B&W Tek, LLC.	^
Software License Agreement	
PLEASE READ THIS SOFTWARE LICENSE AGREEMENT CARE BEFORE DOWNLOADING OR	FULLY
USING THIS SOFTWARE. BY INSTALLING, COPYING, OR OTHERWISE USING THE SOFTWARE, YOU	~
I accept the terms of the license agreement	Print
I do not accept the terms of the license agreement	
allShield	

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

C\WINDOWS\system32\cmd.exe	-		\times	
Creating EventLog source TIDEXDatabaseService in log Application			^	ł
The Install phase completed successfully, and the Commit phase is beginning. See the contents of the log file for the C:\Program Files (x86)\BWTEK\TID EX\WindowsServiceHost.exe ass	embly's	progre	ss.	
The file is located at C:\Program Files (x86)\BWTEK\TID EX\WindowsServiceHost.Installlog. Committing assembly 'C:\Program Files (x86)\BWTEK\TID EX\WindowsServiceHost.exe'. Affected parameters are: logtfole = C:\Program Files (x86)\BWTEK\TID EX\WindowsServiceHost.InstallLog assemblypath = C:\Program Files (x86)\BWTEK\TID EX\WindowsServiceHost.exe				
The Commit phase completed successfully.				
The transacted install has completed.				
C:\Program Files (x86)\BWTEK\TID EX>sc config TIDEXDatabaseService start= auto [SC] ChangeServiceConfig SUCCESS				
C:\Program Files (x86)\BWTEK\TID EX>set CERTNAME=TacticIDServer				
C:\Program Files (x86)\BWTEK\TID EX>certmgr.exe -del -c -r localMachine -s my -n TacticIDServer Error: Failed to find a certificate to delete CertMgr Failed				
C:\Program Files (x86)\BWTEK\TID EX>makecert.exe -sr LocalMachine -ss My -a shal -n CN=TacticIDServer - Succeeded	sky exc	hange -	pe	
C:\Program Files (x86)\BWTEK\TID EX>pause Press any key to continue			~	

• When the installation is done, Click Finish.

TID EX - InstallShield Wizard





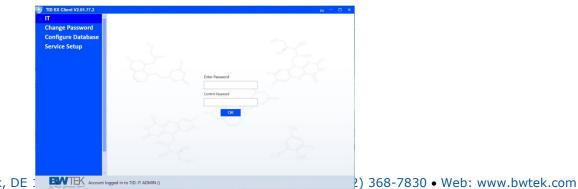
• The message box shown below will appear. For first-time installation, click "No" to exit; if this is a software upgrade, click "Yes" to finish.



• Installation of TID EX software is successful on the PC. The icon for **TID EX** will appear on the PC desktop. Right click **TID EX** and left click on **Properties**. Under the **Compatibility** tab, check **Run this program as an administrator**. Click **Apply** and then **OK**. If it is already checked, click **OK** to exit.

Security	Details	Previous Versions	
General	Shortcut	Compatibility	
	vorking correctly on this pility troubleshooter.	version of Windows, try	
Run compatibilit	y troubleshooter		
low do I choose co	mpatibility settings man	ually?	
Compatibility mode	e		
Run this progra	im in compatibility mod	e for:	
Windows 8		<i>~</i>	
Reduced color	mode		
8-bit (256) color	~		
Run in 640 x 48	O screen resolution		
Disable fullscr	en optimizations		
Run this progra	m as an administrator		
Change hi	gn DPI settings		
Change sett	ings for all users		

 Launch TID EX software from the Desktop, and the TID EX login screen appears. Enter username: "IT ADMIN" with default password "999999"; click Login to continue. Device SN is not required for "IT ADMIN" account login.



19 Shea Way, Newark, DE



• "Configure Database": this is for first-time configuration on this computer, if not, skip this step and move to the next.

Enter information as shown below and the password created for MySQL Server before. Click "OK" to save the configuration. A message "Database configured successfully" will appear. Click "OK" to finish.

User Name: root Server Address: localhost Port: 3306

TO EXV28/17/2	Use here: not series that are series to a series that are series to a series t	The Exv28L/72 The Exv28L/72 Change Password Configure Database Service Setup	Database surfaces accountly	la - C X
See Free Sector Sector	in to TID: IT ADMIN ()	Dev Alans (Partney Array Account logged in to TID: I	T ADMIN ()	

If configuration failure occurs, contact B&W Tek support.

• "Service Setup": there lists functions for database service setup and configuration:

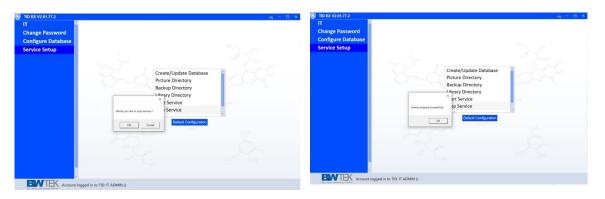




• "Create/Update Database": Click this menu and wait until message shows up: "Database created successfully". Click "OK" to finish.

TID EX V2.01.77.2		en – 🗆 X
а IT — — — — — — — — — — — — — — — — — —		
Change Password		
Configure Database		
Service Setup		
	Create/Update Data	hare a
	Picture Directory	Jase
	Backup Directory	The P
	Library Directory	
	× int Service	
	· ·	
	Database created successfully p Service	
	Default Configura	ation
	OK	-
-		
Sever Place Spatiality Farmer Account logger	d in to TID: IT ADMIN ()	

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



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





🖉 Comercia Management

- Exit the TID EX IT Configuration window by clicking "X" on the top right.
- Optional: 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 EX Database Service" and confirm it is running.

em Tools	Services	<u>^</u>					
TiD E	EX Database Service	Name	Description	Status	Startup Type	Log On As	
Event Viewer		SSDP Discovery	Discovers n	Running	Manual	Local Service	
Stop	the service at the service	State Repository Service	Provides re	Running	Manual	Local Syste	
Performance	at the service	Still Image Acquisition Events	Launches a		Manual	Local Syste	
Device Manager		Storage Service	Provides en	Running	Manual (Trig	Local Syste	
	ription: X Database Service V1.01.18.142	🍓 Storage Tiers Management	Optimizes t		Manual	Local Syste	
Disk Management	A Database Service V1.01.16.142	Charles Superfetch	Maintains a	Running	Automatic	Local Syste	
vises and Applications		Sync Host_eb86730	This service	Running	Automatic (D	Local Syste	
Services WMI Control					Automatic	Local Syste	
MI Control		System Events Broker			Automatic (T	Local Syste	
		System Guard Runtime Mo		Running	Automatic (D	Local Syste	
		Check Scheduler	Enables a us	Running	Automatic	Local Syste	
		CP/IP NetBIOS Helper	Provides su	Running	Manual (Trig	Local Service	
		Cambriewer 12		Running	Automatic	Local Syste	
		California Telephony	Provides Tel	Running	Manual	Network S	
		See Theres	Provides us	Running	Automatic	Local Syste	
		TID EX Database Service	TID EX Data	Running	Automatic	Local Syste	
		Time Broker	Coordinates	Renning	Manual (Trig.:	Local Service	
			Enables Tou			Local Syste	
		Update Orchestrator Service	Manages W	Running	Automatic (D	Local Syste	
		UPnP Device Host	Allows UPn		Manual	Local Service	
		User Data Access_eb86730	Provides ap		Manual	Local Syste	
		User Data Storage_eb86730	Handles sto	Running	Manual	Local Syste	
		🔄 User Manager	User Manag	Running	Automatic (T	Local Syste	
		Q User Profile Service	This service	Running	Automatic	Local Syste	
		Q Virtual Disk	Provides m		Manual	Local Syste	
		Q Volume Shadow Copy	Manages an		Manual	Local Syste	
			Hosts spatia		Manual	Local Service	
		WalletService	Hosts objec		Manual	Local Syste	
		Q WarpJITSvc	Provides a JI		Manual (Trig	Local Service	
		Web Account Manager	This service		Manual	Local Syste	
		WebClient	Enables Win	Kunning	Manual (Trig	Local Service	
			Manages co		Manual (Trig	Local Service	
		Windows Audio	Manages au		Automatic	Local Service	
			Manages au	Running	Automatic	Local Syste	
		Windows Backup	Provides Wi		Manual	Local Syste	
			The Windo		Manual (Trig	Local Syste	
			Enables mul		Manual (Trig	Local Service	
			WCNCSVC		Manual	Local Service	
				Running	Automatic (T	Local Service	
		Windows Defender Antiviru			Manual	Network S	
		Windows Defender Antiviru			Manual	Local Syste	
			Windows D	Running	Automatic	Local Service	
		Q Windows Defender Security		Running	Automatic	Local Syste	
		Windows Encryption Provid			Manual (Trig	Local Service	
		Windows Error Reporting Se			Manual (Trig	Local Syste	
			This service		Manual	Network S.,	

8. Device USB Driver Installation (for USB connection only)

If USB connection is used to connect the TacticID-1064 device and TID EX on the PC, the device driver may need to be installed on PC. Generally the device driver will be installed on PC automatically once the connection is established between the device and the PC using the USB cable shipped with the system. The following steps will guide the users to check whether or not the device driver installation is completed.

- 1. Power on the TacticID-1064 device;
- 2. Insert one end of the USB cable into the MicroUSB port of the TacticID-1064 device and insert the other end into a USB port on the PC;
- 3. A message "a device is plugged in and may need further configuration" may appear. Wait until the driver is installed automatically on the 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.

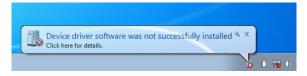


Device Manager	-	×
ile Action View Help		
• 🔶 🗊 🗾 🗊 💭		
> 👰 Cameras		
> 💻 Computer		
> 👝 Disk drives		
> 🥁 Display adapters		
> 🧾 Firmware		
> 🗛 Human Interface Devices		
> The ATA/ATAPI controllers		
> 🕎 Intel WiUSB		
> to Intel(R) Dynamic Platform and Thermal Framework		
> C Keyboards		
Mice and other pointing devices		
> Monitors		
🗸 🚍 Network adapters		
Bluetooth Device (Personal Area Network) #2		
Bluetooth Device (RFCOMM Protocol TDI)		
USB Ethernet/RNDIS Gadget #3		
WAN Miniport (IKEv2)		
WAN Miniport (IP)		
WAN Miniport (IPv6)		
WAN Miniport (L2TP)		
WAN Miniport (Network Monitor)		
WAN Miniport (PPPOE)		
WAN Miniport (PPTP)		
WAN Miniport (SSTP)		
 Tail Print dueues 		

6. Manual driver installation:

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

If the USB driver cannot be installed automatically, perform operation steps 1-3 listed above to make the physical connection of the TacticID-1064 to the PC.

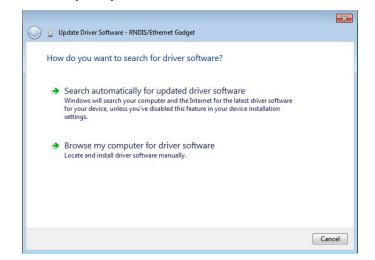


a. In the Windows search bar, type "Device Manager" and find the malfunctioning USB device "RNDIS/Ethernet Gadget". Right click this device and select **Update Driver**.

🚔 Device Manager		
File Action View Help		
determine the setting PC determine the setting PC determine the setting the s		
RNDIS/Ethernet Gadget	Update driver	
Processors	Disable device	
Sound, video and game co	Uninstall device	
Universal Serial Bus control	Scan for hardware changes	÷.
	Properties	
1		



b. Select Browse my computer for driver software;



c. Click "Browse" and navigate to the folder of "RNDIS driver" in the TID EX installation folder:

Update Driver Software - RNDIS/Ethernet Gadget Browse for driver software on your computer	Update Drivers - USB Ethernet/RNDIS Gadget Browse for drivers on your computer
Search for driver software in this location:	Browse for Folder × Search for drivers in 8 Search for drivers in 8 Search for drivers in 8 Search for sour hardware.
UserxUserXDextepNIDEEx_1.01.151.0 Installation FD/RNDIS drives Browse Imitiation FD/RNDIS drives Browse Provide subfolders	Vprismkcommon/Sof see_
Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver software in the same category as the device.	→ Let me pick f This list will show category as the c Folder: Win78Win10 OK Cancel
Next Cancel	Next Cancel

d. Click **Next** and then wait until the driver is installed successfully onto the computer:





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



9. Firewall Configuration

<u>Note</u>: Please present this document to your IT administrator. Use the procedures to check or set firewall configuration only when the connection cannot be established between TacticID[®]-1064 device and PC where TID EX is installed.

This procedure is to ensure proper communication can be established between the TacticID[®]-1064 device and TID EX on the PC. Certain network traffic rules and Windows Firewall Settings may need to be applied. **Third Party Antivirus or Firewall** software (such as McAfee, Norton Endpoint, Avast 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[®]-1064 product uses several specific network ports to establish communication between database services on 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 specific ports that are used are:

MySQL Server:

• TCP: 33060

TID EX:

• TCP: 12301, 8733



- UDP: 12302, 12303
- Allow Programs in Windows Firewall
 - 1. Open Windows Firewall in Control Panel. Click on Allow a program or feature through Windows Firewall.



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

Allowed apps		-		×
← → ✓ ↑ 🄗 « Windows Defender Firewall → Allowed apps ✓ ♂	Search Con	trol Panel		Q
Allow apps to communicate through Windows Defender Firewa	dl –		1	
To add, change, or remove allowed apps and ports, click Change settings.	-			
What are the risks of allowing an app to communicate?	🗘 🗘 Ch	a <u>ng</u> e settin	gs	
Allowed apps and features:				
Name	Private	Public /	^	
@{Microsoft.AAD.BrokerPlugin_1000.10240.16384.0_neutral_neutral_cw5n1h2	🔽			
@{Microsoft.Windows.Cortana_1.4.8.152_neutral_neutral_cw5n1h2txyewy?ms				
☑ 3D Builder				
☑ AllJoyn Router □ Android Studio				
Captive Portal Flow	□ つ ☑	✓		
Cast to Device functionality	2	•		
Client				
☑ connect				
✓ Core Networking	✓	✓		
✓ Cortana	\checkmark	✓		
CyberLink PowerDirector	✓		×	
D	etai <u>l</u> s	Re <u>m</u> ove		
	Allow an	iothe <u>r</u> app		
	3			
	ОК	Cancel		



NOTE: In a scenario where "Client.exe" is not listed, the program will need to be added manually. Click **Allow another app**. Find the program in the following directory: "C:\Program Files (x86)\BWTEK\TID EX.exe". Click **Add** and follow step 2 above.

- Windows Firewall Rule Configuration
 - Navigate to "Control Panel" (Category View) -> "System and Security" -> "Windows Defender Firewall" -> "Advanced settings" -> "Inbound Rules" -> "New Rule".

 c → v ↑ Im > Control Panel c → v ↑ Im > Control Panel > System and Security c → v ↑ Im > Control Panel > Contro	Control Panel		– 🗆 ×	System and Security				-	
Adjust your compute's settings View by: Categor System and Security System and Security Security and Maintenance System and Security System and Security System and Security Security System and Security Security and Maintenance System and Security Security System and Security Security System and Security Security and Maintenance Hordware and Sound Charge tack account computer problems System and Security Security and Maintenance Hordware and Sound Charge tack account computer problems We recover and Interret Programs We recover and Interret Charge tack account computer problems We recover and Interret Charge tack account computer problems We recover and Interret Charge tack account computer problems We recover and Interret Charge tack account computer problems We recover and Interret Charge tack account computer problems We recover and Interret Charge tack account computer problems We recover and Interret Charge tack account computer problems We recover and Interret Charge tack account computer problems We recover and Interret Charge tack account computer formats We recover and problems Charge tack account comput	🕆 🔝 > Control Pan	vel	✓ Č Search Control Panel P	🗧 🚽 🕆 🕈 🌜 Control F	Panel > System and Security >	~ č	Search Con	ntrol Panel	
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"Rule Type", select "Port" and click Next.
 "Protocol and Ports": choose "TCP". In "Specific local ports", enter: "12301, 8733" and click Next.

🔗 New Inbound Rule Wizar	d	× Prew Inbound Rule	Wizard	×
Rule Type Select the type of firewall rule to o Steps:	urede.		ports to which this rule applies.	
Rule Type Protocol and Pots Action Potfie Photfie Name	What type of rule would you like to create?	Steps: Puls Type Protocol and Pots Action Action Name Name	Des the site apoly to CP or UDP? UDP 1 Des the site apoly to all local posts or specific local posts? I local posts Specific local posts 2 Description Des	Canoel

- "Action": choose "Allow the connection" and click Next.
 "Profile": check "Domain", "Private", "Public" and click Next.
- 19 Shea Way, Newark, DE 19713, USA Tel: +1 (302) 368-7824 Fax: +1 (302) 368-7830 Web: www.bwtek.com



🔗 New Inbound Rule Wizard		×	💣 New Inbound Rule Wizard		×
Action Specify the action to be taken when a Steps:	connection matches the conditions specified in the rule.		Profile Specify the profiles for which this rul Steps:	le applies.	
 Rule Type Protocol and Pots Action Protile Name 	What action should be taken when a connection matches the specified conditions? (a) Show the connection The includes connection with a protected with Piece as well as those are not. (b) One Exponection of a taken connection The specified using the settings in Piece properties and rules in the Connection Security Connection Connection (c) Book the connection		Pike Type Protocol and Posts Action Prote Name	When does this rule apply? When does this rule apply? Prove: Prove: Pro	
	<back berry="" cancel<="" th=""><th> </th><th></th><th>< Back Bert Conce</th><th></th></back>			< Back Bert Conce	

4. "Name": use name "TacticID[®] EX TCP" and click Finish. Then "Create" another "New Rule".

"Rule Type: select "Port" and click Next.

New Inbound Rule Witard X Name Specify the name and description of this rule.	Rev Inbound Rule Wizard X Rule Type Select the type of firewal rule to create.
Ret type Protocol and Pots Action Protile	Steps: What type of null would you like to create? P Notice and Pots Photocol and Pots P Politics Degram Name P Politics P Name Cuation rule.
< Book Emmh Cancel	< Back Back Cancel

5. "Protocol and Ports": choose "UDP". In "Specific local ports", enter: "12302, 12303". Click Next.

💣 New Inbound Rule Wizard	Pew Inbound Rule Wizard X
Protocol and Ports Specify the protocols and ports to which this rule applies.	Action Specify the action to be taken when a connection matches the conditions specified in the rule.
Steps: Particular Ports Action Profile Name Dest this sub apply to TCP or UDP? TCP Dues this sub apply to all local ports or specific local ports? O glocal ports (12202, 12203) Dest this sub apply to all local ports? Dest this sub a	Step:: • Nate: a data of Pois • Adata • The addition of hold be taken when a connection matches the specified conditions? • Nate: • The notation connection matches the specified conditions? • Nate: • The notation connection matches the specified conditions? • Nate: • More the connection of it is secure: • Nate: • More the connection of it is secure: • Matches only connection of it is secure: • More the connection of it is secure: • Other the connection of it is secure: • Matches only connection of it is secure: • Other the connection of it is secure: • Matches only connection of it is secure: • Other the connection of it is secure: • Matches only connection of it is secure: • Other the connection • Matches only connection of it is secure: • Other the connection • Matches only connection of it is secure: • Other the connection • Matches only connection • Other the connection • Matches only connection • Other the connection • Other the connection



"Profile": check "Domain", "Private", "Public" and click Next.
 "Name": use name "TacticID[®] EX UDP" and click Finish.

New Inbound Rule Wizad Profile For for the profile for which this ale apples. Server: File for the form ale apples. File for the compact is connected to as private network location, such as a home or own glace. Profile Prof		
Specify the profiles for which this sue applies. Separative profiles for which this sue applies. Separative profiles for which this sue applies. Support the notes this rule apply? Protocol and Ports Action Profile Name Description of the computer is connected to a private network location, such as a home Profile Name Profile Name Description of profile Name Description of profile Name Description of profile Name Name Name Name Name Name Name Nam	Pew Inbound Rule Wizard	P New Inbound Rule Wizard
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10. TID Login

TID EX software accepts different levels of account logins for data management. After the completion of the installation steps above, the first synchronization with the TacticID-1064 device must be done with the "TID ADMIN" account. Further description of possible TID EX software login credentials are below:



- Username: IT ADMIN (including space)
 Default Password: 999999
 Offers functions of IT management. "Device SN" can be blank.
- Username: TID ADMIN (including space) Default Password: 9999999
 For first-time use to activate the server database when MySQL database has never been synchronized. After first-time synchronization to the device, this account will be disabled. "Device SN" can be blank.
- Account of "ADMIN" and all other device-created user accounts are accepted for user login to TID EX. These are not available until first synchronization with "TID AMIN"



account is complete. User must select "Device SN" in addition to the appropriate login credentials.

11. IP address configuration

Make sure the device is powered on and connected via USB cable to the PC where TID EX is installed. Start TID EX and login using the "TID ADMIN" account for the first time, or another device account. After a successful login, the screen below should appear:



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

In some scenarios, due to IT restrictions, 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 the "Network and Sharing Center" in Windows 10 or equivalent program in Windows 7 or 8. Find the network connection which is associated with this device. Plug in the device while on this window to easily determine which connection to change. It should appear as an "Ethernet" connection:

	nel > All Control Panel Items > Network an	d Sharing Center	
Control Panel Home	View your basic network inform	ation and set up connections	
	View your active networks		
Change adapter settings			
Change advanced sharing	BWTEK 3	Access type: Internet	
settings	Public network	Connections: Mi-Fi (BWTEK)	
	Change your networking settings		
	www.set up a new connection or network		
	Set up a broadband, dial-up, or	dial-up, or VPN connection; or set up a router or access point.	
	Troubleshoot problems		



 Click the appropriate "Connections" link, for example "Ethernet 3" as shown above. Click "Properties" on the status window that appears.

In the Properties window, select "Internet Protocol Version 4 (TCP/IPv4)" until highlighted and click "Properties" again:

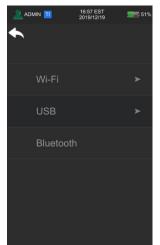
Ethernet Status	X 🖳 Ethernet 3 Properties
General	Networking Sharing
Connection	Connect using:
IPv4 Connectivity: Internet	🚽 USB Ethernet/RNDIS Gadget
IPv6 Connectivity: No network access	Configure
Media State: Enabled	This connection uses the following items:
Duration: 2 days 19:21:20 Speed: 100.0 Mbps Details Activity Sent Received	
	Install Uninstall Properties
Bytes: 525,892,927 3,096,869,510 Properties Diagnose Diagnose	Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Close	OK Cancel

- 3. "Internet Protocol Version 4 (TCP/IPv4) Properties": select "Use the following IP address" and configure as below:
 - IP address: 192.168.7.10 (increment the 4th digit if unavailable. Ex. 192.168.7.11)
 - Subnet mask: 255.255.255.0
 - Default gateway: 102.168.7.1
 - Preferred DNS server: 102.168.7.1
 - Alternate DNS server: keep blank

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



4. On the TacticID[®]-1064 device, login with any account. Navigate to "Data Transfer" and select the USB on the left to cause the green check mark to appear. Do not navigate away from this screen or connection to device will not occur.



- 5. The TacticID-1064 icon with the device SN will appear under "Device Group" in the TID EX interface. This means communication has been established successfully.
 - Note: If the icon does not appear under "Device Group", double check the firewall settings and IP configuration, or call B&W Tek technical support for help.



- 6. Click the device under "Device Group" that you want to login to, and input the "User Name" and "Password" for this account. Click "Login" to connect to the device.
- 7. Connection and installation is complete.



12. Appendix I: Microsoft Root Certificate Authority Update Instruction

The following information can be referenced in the event .NET Framework 4.6.2 failed to install properly:

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	×
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	certmgr.msc 👻
	OK Cancel <u>B</u> rowse

Step 2:

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

🚡 certmgr - [Certificates - Current User]			
File Action View Help			
🧇 🄿 🖬 🙆 😖 👔 🖬			
Certificates - Current User Personal	Logical Store Name		
▷ ☐ Trusted R ▷ ☐ Enterprise Find Certifica		Authorities	
▷ ☐ Intermedi All Tasks ▷ ☐ Active Dir	Find Certific	ates	
Trusted P Refresh	Import		
▷ ☐ Untrustec ▷ ☐ Third-Par	Certificates		
Trusted People Trusted People			
Certificate Enrollment Reques	Trusted People		
Smart Card Trusted Roots Gertificate Enrollment Requests Smart Card Trusted Roots			
4 III +	•	4	
Add a certificate to a store			



Step 3:

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

F	J.
Certificate Import Wizard	Certificate Import Wizard
File to Import Specify the file you want to import.	Welcome to the Certificate Import Wizard
Ele name: F:\MySQL Server\Optional\MicrosoftRootCertificateAuthority2011. Browse Note: More than one certificate can be stored in a single file in the following formats: Personal Information Exchange- PKCS #12 (.PFX,.P12) Cryptographic Message Syntax Standard-PKCS #7 Certificates (.P76) Microsoft Serialized Certificate Store (.SST)	This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to 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 establish cornections. A certificate store is the system area where certificates are kept. To continue, dick Next.
Learn more about <u>certificate file formats</u>	
< Back Next > Cancel	< Back Next > Cancel
Certificate Import Wizard	Certificate Import Wizard
Certificate Store Certificate stores are system areas where certificates are kept.	Completing the Certificate Import Wizard
Windows can automatically select a certificate store, or you can specify a location for the certificate. Automatically select the certificate store based on the type of certificate Each certificate at the following store Certificate store: Trusted Root Certification Authorities Browse	The certificate will be imported after you click Finish. You have specified the following settings: Certificate Store Selected by User Content Certificat File Name F:\WySQL Server\Opt
Learn more about <u>certificate stores</u> <	< Back Finish Cancel
Security Warning You 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): 8F43288A D272F310 386FB142 8485EA30 14C0BCFE Warning: If you install this root certificate, Windows will automatically trust any certificate is a point in a security risk. If you click "Yes" you acknowledge this risk. Do you want to install this certificate?	Certificate Import Wizard
Yes <u>No</u>	



13. 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_EX_2.01.xx.x\Installation\Prerequisites\kindle_rndis.inf_amd64-

- v1.0.0.1\kindle_rndis.inf_amd64. 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_EX_2.01.xx.x \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 EX Database Service cannot start in Windows Services? Solution:

Most of the time this is due to the port conflict between TID EX and other software preinstalled on the same computer. The list of ports used in TID EX software is provided in section 9 of this document. Disable other services which have port conflicts. So far, the only known app with a port conflict is "HP JumpStart". We will update this list if more program conflicts are found.

3.What if, after connecting the TacticID[®]-1064 device to PC and logging in to both TOS and TID, the device SN does not show up in the Device Group? Solution:

a. On the device's "Data Transfer" screen, go to the configuration page (tap on the arrow) of the selected connection to see if it is disabled. If it is disabled, enable it.

b. Check if the device is plugged into a different USB port than before. If so, click "Check USB" again to re-configure the IP address setting, or check section 11 of this document if there are IT restrictions stopping the automatic configuration.

c. If the connection is through Wi-Fi, check to ensure that both Device and PC are under the same network.

d. Check the firewall settings to make sure the TID EX program is allowed to go through the firewall in both public and private networks.

e. 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:

This procedure requires IT assistance.

- a. First, shut down the service "mysql57".
- b. Go to C:\ProgramData\MySQL\MySQL Server 5.7, note that "ProgramData" is a hidden folder.
- c. Look for the file "my.ini". Create a copy of "my.ini" as a backup in different folder. Open the original one and add one line "skip-grant-tables" below "[mysqld]" section as shown below:

[mysqld]

skip-grant-tables

- d. Start the service "mysql57".
- e. If done correctly, you can access the database.
- f. Using cmd or powershell, run mysql -u root –p under the database directory to access the database. Typically, the directory is located at C:\Program Files\MySQL\MySQL Server 5.7\bin.
- g. Use the following query 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.
- h. Shut down the "mysql57" service again and remove the line 'skip-grant-tables' from "my.ini". Save the file.
- i. Start the service again and try to use the password you set to login MySQL root.