Installation Instructions

Rainin PipetteX

Version 4.1





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1 Introduction

1.1 Audience

This document is intended for users who are responsible for running system administration operations. We recommend that only people with the necessary knowledge and corresponding training perform the system installation.

Please read this manual carefully and thoroughly before installing PipetteX. Ensure you are familiar with all components within the system. You must be familiar with the database tools and hardware components.

1.2 Purpose of this Document

This document provides installation and maintenance information for PipetteX. We recommend that before installation, upgrade, or maintenance of the software you read the related chapters in this document.

1.3 Related Documents

For more information, visit https://www.mt.com/rainin-sstanddocs. Here you will find more tutorials and other documentation or videos.

- https://www.mt.com/smartcheck
- EasyScan LAN / EasyScan USB
- EasyScan TM USB
- EasyScan Flex

1.4 End User License Agreement (EULA)

The software in this product is licensed under Rainin PipetteX End User License Agreement (EULA) for software, available at https://www.mt.com/eula. When using this product you agree to the terms of the EULA.

1.5 Disclaimer

This document may contain inaccuracies or errors of substantive or typographical nature. METTLER TOLEDO does not assume any responsibility or risk for your use of the information provided in this document. Nothing in this document shall be construed as a guarantee or warranty, either express or implied (including without limitation warranties as to merchantability or fitness for a particular purpose). The software described herein may be dependent on various external factors and configurations, such as system configuration, customer data, and operator control.

The implementation of the products this document relates to may vary consequently, the suitability of specific product configurations and applications must be determined by the customer and is not warranted by METTLER TOLEDO. If you rely on the information or any advice, opinion, or statement in this document, you are doing so at your sole risk. To allow improvements, the information in this document is subject to change.

1.6 Use of Third-Party Licenses

PipetteX uses standard components from third parties. An overview of third-party licenses can be found on http://www.mt.com/licenses.

2 PipetteX System Overview

PipetteX can be installed within your organization either as a standalone or as a distributed system. When installed as a distributed system, all the asset details are stored in a centralized location (database) and all the PipetteX clients available in the network can view and share all the assets.

PipetteX software consists of four main components:

- Client UI Application (User Interface Component)
- Background Application (Windows Service Component)
- Business Server (Windows Service Components for Business Server, SmartCheck, LabX Integration Service, Scheduler Service, Silex Virtual Link Lite & Audit Trail)
- Database Server (Microsoft SQL Server)



PipetteX

Client application

The client application is the main interface through which you can view the assets and other instruments connected to your PC. You can configure the way PipetteX behaves using this application.

Background application

The background application resides within the client application on your PC and automatically runs even when the PC is not logged in. The status will be indicated with an X in the Windows taskbar. The background application maintains the connection to the RFID readers and the database through the Business Server. It logs data received from the connected readers regardless of whether you are logged in or not.

To view data stored in the database, the client application has to be open, and depending on your user rights, information can be looked at. The collected data are shown in different views and tables.

- Dashboard
- Graph
- Event viewer
- Assets
 - Manual & Electronic
 - Manual
 - Electronic
- SmartChecks/Balances
 - XSE/XPE/XPR/XSR balances
 - SmartChecks
- Peripherals
 - Readers
 - Method card
 - Gateway
- Address
- User Management
 - Users
 - User roles
 - User qualification
- Metrology
 - Method
 - Test plan
 - Audit trail
 - Bulk E-sign
- Settings
 - Settings (with policies)
 - LabX API configurations
 - Scheduler
 - Print configuration
 - Asset groups
 - Lab regulation levels
 - Comments
 - Reasons

Business Server

The Business Server runs automatically in the background when the PC is running. This component can be run either on the same PC (standalone) or a different PC (distributed system). The Business Server acts as a bridge between the database server and the client applications installed across the network. The following components are installed along with the Business Server:

- PipetteX Audit Service
- PipetteX DB Utility Scheduler Service
- PipetteX Instrument Service
- PipetteX Scheduler Service
- PipetteX LabX Integration Service
- PipetteX SmartCheck Service

The Business Server periodically connects to the METTLER TOLEDO server

- and retrieves: new pipette models available in the market.
- certificates of pipettes for which service or calibration is done through METTLER TOLEDO along with other details.

The Business Server also validates your license subscriptions.

3 Preparing the System Installation

3.1 System Requirements

PipetteX can be installed either as a **standalone system**, where all the components along with the database are available on the same PC, or as a **distributed system**, where each component resides on a different PC. PipetteX clients can be installed on multiple PCs connected to a Business Server.

3.1.1 Computer

The following tables show the minimal and optimal hardware requirements for running PipetteX. However, the hardware requirements depend heavily on the number of connected readers/type of readers and the operating rate of the readers along with the network capabilities.

If the CPU supports Hyper-Threading, you can double the available cores when calculating the hardware requirements. A dual-core CPU would therefore be counted as a quad-core.

Junatone System						
Computer	Minimum	Optimum				
CPU	2 GHz Dual Core	3 GHz Quad Core				
RAM	8 GB	16 GB				
Display Resolution	1280 × 768	1920 × 1080				
Hard Disk	20 GB free space	40 GB free space				
Operating System	Windows 10 - 64 bit (update ≥21H2)	Windows 10 - 64 bit (update ≥21H2)				
Installed Components	PC Client, Instrument Service, Business Service, Audit Service, SmartCheck Service, MS SQL Server 2014 SP3	PC Client, Instrument Service, Business Service, Audit Service, SmartCheck Service, MS SQL Server 2022				

3.1.1.1 Standalone system

For standalone systems, all the components (Database, Business Server, and Client) will be installed in the same PC.

3.1.1.2 Distributed system

Database Server

Computer	Minimum	Optimum	
CPU	2 GHz Dual Core	3 GHz Quad Core	
RAM	16 GB	32 GB	
Display Resolution	1280 × 768	1280 × 1024	
Hard Disk	50 GB free space	100 GB free space	
Operating System	Windows Server 2016	Windows Server 2019	
SQL Server	MS SQL Server 2014 SP3	MS SQL Server 2022	

PipetteX Business Server

Computer	Minimum	Optimum
CPU	2 GHz Dual Core	3 GHz Quad Core
RAM	16 GB	32 GB
Display Resolution	1280 × 768	1280 × 1024
Hard Disk	10 GB free space	20 GB free space
Operating System	Windows Server 2016	Windows Server 2019
Installed Components	Business Service, Audit Service, SmartCheck Service	Business Service, Audit Service, SmartCheck Service

PipetteX Client

Computer	Minimum	Optimum
CPU	2 GHz Dual Core	3 GHz Quad Core
RAM	8 GB	16 GB
Display Resolution	1280 × 768	1920 × 1080
Hard Disk	20 GB free space	40 GB free space
Operating System	Windows 10 - 64 bit (update ≥21H2)	Windows 10 - 64 bit (update ≥21H2)
Installed Components	PC Client, Instrument Service	PC Client, Instrument Service

For distributed systems, we recommend installing the Business Server on a PC/server hardware that is always ON, as it will be constantly polling the METTLER TOLEDO server to synchronize asset and service data.

3.1.2 Supported operating systems

The following list shows the supported operating systems of PipetteX.

Operating Systems

	Service Pack	Editions	32bit	64bit
Windows 10	21H2	Customer, Business, Education		•
Windows 10	21H2	Long Term Service Channel (LTSC)		•
Windows 11	21H2	Customer, Business, Education		•
Windows 11	21H2	Long Term Service Channel (LTSC)		•
Windows Server 2016		Essential, Datacenter, Standard		•
Windows Server 2019		Essential, Datacenter, Standard		•
Windows Server 2022		Essential, Datacenter, Standard		•

3.1.3 Supported SQL servers

PipetteX will install an instance of Microsoft SQL Server 2022 Express Edition to create a database if your PC does not contain an Instance **PipetteX**.

The users can also connect to an already existing Microsoft SQL Server. Details on how to connect to an existing database server are included in [Distributed System > Page 22].

The following list shows the supported SQL servers of PipetteX.

SQL Servers

	Service Pack	Editions	32bit	64bit
SQL Server 2014	SP3	Standard, Enterprise & Express	٠	•
SQL Server 2016	SP2	Standard, Enterprise & Express		•
SQL Server 2017		Standard, Enterprise & Express		•
SQL Server 2019		Standard, Enterprise & Express		•
SQL Server 2022		Standard, Enterprise & Express		•

3.1.4 Additional Requirements

You need to disable the **Hibernate** and or **Standby** options on the PC that are running on the Business server, as PipetteX does not support the **Hibernate** and **Standby** modes. You will find more information, on how to deactivate the **Hibernate** and **Standby** modes under: > http://support.microsoft.com/kb/920730/en

3.1.5 Additional Software Installed

The following third-party software is required by PipetteX to run. This will install the necessary components automatically.

Additional Software

Name	Version	Installed by PipetteX
.Net Framework	4.8	•
SQL Server Express 2022	2022	•

i Note

• The Microsoft Message Queuing (MSMQ) feature will be turned on by the PipetteX installer.

3.1.6 Readers

PipetteX supports the following RFID readers with the corresponding configuration. The readers must fulfill the requirements to operate with PipetteX.

RFID Reader Devices

	Firmware	USB	Serial	Ethernet	Bluetooth
SmartStand	1.1.1.1	•			•
EasyScan USB	1.1.0.1 0.0.0.0.0	•			
RFID Reader (Legacy)		•			
FlexScan Reader	1.0.2.21		•		

i Note

Driver installation required (Creating Virtual COM)

3.1.7 Balances and gateways

PipetteX supports the following instruments with the corresponding configuration. The instruments must fulfill the requirements to operate with PipetteX.

Devices

	Firmware	USB	Serial	Ethernet	Bluetooth
XPE Balance	2.20			•	
XSE Balance	2.21			•	
XPR Balance	2.0.401	•		٠	
XSR Balance	2.0.501	•		٠	
SmartCheck	2.0.3	•+			
Silex Gateway	1.4.0			٠	

+ Communication via USB as well as through Gateway

i Note

To avoid a PC restart, disconnect the Silex gateway from any PipetteX client before upgrading the Business Server.

3.1.8 Virtualized environments

Device readers supported by PipetteX are not tested in virtualized environments. However, if the instructions for connecting/redirecting USB/Bluetooth devices in a virtual environment are followed, PipetteX should run correctly.

i Note

If the Business Server is installed in a virtual environment, the Business Server must be running for it to connect with and retrieve asset details from the METTLER TOLEDO server.

Virtualization	PipetteX Installation		Device Connection	Comments	
Software	Standalone Distributed		& Data Transfer		
Oracle: Virtual Box	Not verified	Not verified	Not verified	Use the built-in port forward option in VBox. Refer short setup instructions below.	
Microsoft: Hyper-V Manager	Verified	Verified	Not verified	The use of third-party tools like the one specified below allows us to connect with supported devices in virtualized environments, > COM port in Virtual Machine.	
VMWare: Workstation	Not verified	Not verified	Not verified	The use of third-party tools like the one specified below allows us to connect with supported devices in virtualized environments, COM port in Virtual Machine.	

Oracle Virtual Box Settings – COM Port Forward

- Ensure the Virtual Box extension pack is installed/enabled
- 1 Plug in the devices, EasyScan USB or SmartCheck in the Host Server, where Virtual Box was installed.
 - System will list the ports in the device manager of Host Server
- 2 Launch the virtual environment with supported operating system.

3 From the Settings tab, navigate to USB section and add the relevant port.

👌 W10_FR_x86_Custon	ner - Settings	? 💌
General	USB	
System	Inable USB Controller	
📃 Display	 USB 1.1 (OHCI) Controller USB 2.0 (OHCI + EHCI) Controller 	
返 Storage	O USB 3.0 (xHCI) Controller	
խ Audio	USB Device Filters	
P Network		
🚫 Serial Ports		
SB 🖉		
Shared Folders		ß
🔳 User Interface		
	Invalid settings detected 🔼 OK	Cancel

When the tray service is running in the virtual environment, the pipette system will display the auto-detect popup to add the devices to the application.

3.1.9 Supported Active Directory configurations

PipetteX supports the following Active Directory (AD) configurations-domain formats:

- prefix.domain.com
- domain.com
- domain.Forest.suffix.com

3.1.10 Supported languages

PipetteX, SmartStand, XPE/XSE, and XPR/XSR support a different list of languages. Mixed languages do not negatively affect any system. The following languages are supported:

Languages

Language	PipetteX	SmartStand	XPE/XSE	XPR/XSR
Chinese (simplified)	•			•
Chinese (traditional)	•			•
Czech				•
English	•	•	•	•
French	•		•	•
German	•		•	•
Hungarian				•

Language	PipetteX	SmartStand	XPE/XSE	XPR/XSR
Italian				•
Japanese	•			•
Korean	•			
Polish				•
Portuguese	•			•
Russian				•
Spanish	•		•	•

3.2 Pipettes

PipetteX supports Rainin RFID pipettes (manual, electronic, single/multichannel) as well as non-RFID pipettes (any brand).

3.3 Pipette Verification

3.3.1 Balances

PipetteX supports retrieving routine test reports from XPE and XSE balances connected through network. Support for a RS232/serial connection directly from the balance is not available. Refer to the table below to set up a QuickCheck verification station.

	XPE analytical balance	XPR analytical balance*
Balance**		
Volume to be tested		
≤10 µl	30105893 XPE26 (0.0015mg) 30105897 XPE26DR (0.01-0.005mg)	30355476 XPR26 (0.001mg) 30355530 XPR26DR (0.01-0.001mg)
>10-10′000 μl	30087653 XPE205 (0.01mg) 30087700 XPE205DR (0.1-0.01mg)	30355411 XPR205 (0.01mg) 30355415 XPR205DR (0.1-0.01mg)
Cables and accessories		
USB-RS232 converter cable incl f/f converter	30364315	N/A
Optional LAN port for balance	11132515	N/A
Evaporation trap		
SmartCheck trap 50 mL (for XPE/R205)	30215436	30215436
Evaporation trap 10 mL (for XPE/R26)	11140041	11140041
RFID reader (desktop model)		
EasyScan Flex Reader RS232	30215407	N/A
EasyScan Flex Reader USB	N/A	30416173
RFID tags/cards		
Smart Tag RFID labels 50pcs	30101517	30101517
Smart Tag RFID labels 200pcs	30101518	30101518
Method Card 5pcs	30300929	30300929
Method Card 25pcs	30300930	30300930

* Released in 2021. Please check feature availability in your country. No rights can be obtained from this document.

** Balance recommendation according to ISO8655-6 2002(E), section 4.1

3.3.2 SmartCheck

The SmartCheck is an easy-to-use pipette verification instrument. By default, it will measure to 5% tolerance. Hooking it up to PipetteX allows you to do several things.

Connected via USB (standalone case)

Connect to SmartCheck to perform any of the 2 actions below. Afterwards, disconnect the SmartCheck from PipetteX and place it back on the bench.

- Change the tolerance of the SmartCheck (change it to any value between 3-10%).
- Change the firmware of SmartCheck.

Connected via USB (connected case)

Connect a SmartCheck to a PC that has PipetteX on it and leave it connected via USB. In addition to the above, you can also:

- Start the Pipette Verification from PipetteX and measure against pipette specific tolerances. Get the verification report automatically assigned to the document history of the pipette (only for the paid license)
- With an EasyScan Flex USB reader, you can turn any PC into an automated pipette verification station.
- Hold an RFID enabled pipette over the reader, have the SmartCheck set itself to the correct tolerance for the pipette.
- · Check the pipette and the report will be automatically captured in the software.

Connected via a USB-LAN gateway (autonomous case)

Automate your pipette verification process without the need for a PC at the bench. Hookup a SmartCheck and an EasyScan LAN reader to your network and verify any pipette without touching the PC. Note that you will need to install the Silex Gateway in your network environment.

3.3.3 Smart tags

PipetteX supports Smart Tags affixed to non-RFID pipettes (both Rainin and non-Rainin).

3.3.4 Method cards

PipetteX supports Rainin Method Cards for use in conjunction with non-RFID pipettes to store routine test method parameters.

3.4 System Backup

Users are solely responsible for assuring that the SQL database and all data related to PipetteX is backed up in a timely manner.

PipetteX comes with a simple database backup utility installed. For more information and instructions, download the User Manual at www.mt.com/rainin-sstanddocs.

PipetteX Support Site

4 Installing the PipetteX Software

PipetteX can be installed as a **Standalone System** where all the components are installed and made available on the same PC, or as a **Distributed System** where every component can be installed in a different PC based on your requirement.

Follow the instructions below to install PipetteX:

- 1 Run the PipetteX installation **PipetteX Setup.exe** as an administrator.
 - Installation will first check for prerequisites and try to install all the required and missing third party components and Windows services, which are necessary for PipetteX to run.

X 82% Extracting ×	X PipetteX™ Setup	×
	Initializing PipetteX™ prerequisite installation. This may take several minutes. Please wait	

The wizard will inform you about system restart(s) if any of the mandatory prerequisites are not available and ask for your confirmation (see screenshot below) to proceed with the installation.

No prerequisites are available

MSMQ not enabled

PipetteX		×	PipetteX		×
0	During installation of PipetteX, each of the below component(s) will require a system restart		1	During installation of PipetteX, each of the below component(s) will require a system restart	
	Installation of .NET Framework 4.8 Enabling MSMQ (only applicable to the Business server) You can postpone the system restart(s) to a time convenient to you (like regular maintenance windows). However you will not be able to continue the installation of Pipettex After installing / enabling the above component(s) until the system has been restarted. Click OK to continue or Cancel to abort the installation now.			- Enable MSMSQ (Only applies to the Business server) You can postpone the system restart(s) to a time convenient to you (like regular maintenance windows). However you will not be able to continue the installation of PipetteX after installing / enabling the above component(s) until the system has been restarted. Click OK to continue or Cancel to abort the installation now.	
	OK Cancel			OK Cancel	

Similarly message content will list only .Net components, if the .Net version alone is not available. If the PC hardware or server does not have .Net 4.8 installed, PipetteX will install it and the user must restart the PC to proceed.

While installing .Net 4.8 on an active server running other software applications, note that .Net 4.8 in an active server also handles other software applications.



After the required components are installed, installation of PipetteX starts automatically. If the installation does not start automatically (after re-start), then run the setup again.

2 The PipetteX setup wizard guides you through installation of PipetteX.

X Mettler-Toledo Rainin, LLC PipetteX™ —		\times
Welcome to PipetteX™ Setup		
The installation wizard will guide you through next steps.		
Cancel	<u>N</u> ext	>

- 3 Click Next.
 - → The End-User License Agreement window is displayed.

X Mettler-Toledo Rainin, LLC PipetteX™ —	\times			
End-User License Agreement				
Please carefully read the End-User License Agreement				
Mettler-Toledo End User License Agreement (EULA) for Software IMPORTANT-READ CAREFULLY: This license agreement ("EULA") is an agreement between you ("you") and us, Mettler-Toledo group company ("MT") identified on your license articlement desugerations for you of the orthogonal				
identified on your license entitlement documentation for use of the software you obtained from MT ("License Documents") or in the absence thereof on the quote, order acknowledgment, service agreement, invoice, or other order document between you and MT ("Order Documents"). Software ("Software") means hereby software provided in an executable form by MT to you, either as an integral part of equipment or as a standalone product. The right to use the				
✓ I accept the terms in the License Agreement	int			
Cancel < <u>B</u> ack <u>N</u> ex	t >			

4 You must accept the End-User License Agreement and click Next to proceed with installation.

5 Select one of the systems (standalone or distributed).



By selecting **Standalone system**, all the components are installed in the same PC and your PC is self-sustained.

By selecting **Distributed system**, all the components are installed across the network.

4.1 Standalone System

After selecting Standalone system, follow the steps below:

1 Click Next to begin installation of SQL Server and other components, including drivers.

🔀 Mettler-Toleo	do Rainin, LLC PipetteX™	-		\times
Confirm i	nstallation settings			
Installation Path	C:\Program Files (x86)\METT	LER TOLEDO\PipetteX\		
	Space Available: 26512 MB	Space Required: 2150	MB	
Install all feature Enable MSMQ Install/Update - MT F - MT G - SX V - FTDI SQL Server/Dal - Instal - Creat	TDI Driver Beneric USB Serial Port Iritual Link Lite Driver Jabase Operation I SQL Server '.\PipetteX' Ie Database - 'PipetteXDB'			
	Cance	l < <u>B</u> ack	Insta	all

2 If the PipetteX SQL server is already installed on your PC, this installation does not create an additional instance of PipetteX. All of the components (Business Server, client, etc.) is installed on the same PC.

X Mettler-Toled	lo Rainin, LLC PipetteX™	_		\times
Confirm ir	nstallation settings			'
Installation Path	C:\Program Files (x86)\MET	TLER TOLEDO\PipetteX\		
	Space Available: 21644 MB	Space Required: 102 MI	3	
Install all feature Enable MSMQ Install/Update - MT F - MT G - SX Vi - FTDI SQL Server/Dat - Use e - Creat	TDI Driver eneric USB Serial Port trual Link Lite Driver abase Operation xisting SQL Server '. \PipetteX e Database - 'PipetteXDB'			
	Cance	el < <u>B</u> ack	Insta	all

- On installation, associated data and log files are created and updated in C:\Program Files (x86)\METTLER TOLEDO\PipetteX.
- 3 If the SQL server is already installed, then PipetteX skips the SQL instance alone and other components are installed.

X Mettler-Toledo Rainin, LLC PipetteX™ —		\times
Installing SQLServer		
Cancel < <u>B</u> ack	<u>N</u> ext	>

髋 SQL Server 2022 Setup		-		\times
Installation Progress				
Install Setup Files Installation Progress	Install_conn_info_Cpu64_Action : Write_NativeImage_64. Generating Native Images			
	<u>N</u> ext :		Cancel	

4 You must enable MSMQ. If not, the installer will enable the MSMQ and start installing the other components.

X Mettler-Toledo Rainin, LLC Pipet	tteX™	_		\times
Installing PipetteX™				
Enabling MSMQ				
	Cancel	< <u>B</u> ack	<u>N</u> ext	>

- Mettler-Toledo Rainin, LLC PipetteX™

 Installing PipetteX™

 Creating Database ...

 Creating Database ...

 Cancel

 Cancel
- 5 The installation continues with a new database creation.

6 After installing all of the components, the PipetteX service will start.

X Mettler-Toledo Rainin, LLC Pipet	teX™	_		×
Installing PipetteX™				
Starting services				
	Cancel	< <u>B</u> ack	<u>N</u> ext >	

➡ On successful installation, the screen below is displayed.



4.1.1 Supporting information

Make sure the listed components below are available after successful installation. You can find services by typing in "services" in the windows search bar.

Services

- PipetteX Audit Service
- PipetteX DB Utility Scheduler Service
- PipetteX Instrument Service
- PipetteX Scheduler Service
- PipetteX LabX Integration Service
- PipetteX SmartCheck Service
- PipetteX Business Service

*Services run using Logon As user, Network Service.

Firewall Ports

Control Panel/All Control Panel Items/Windows Firewall --> Advanced Settings Inbound Rule

- PipetteX Business Service Discovery_IN (UDP) 3702
- PipetteX Business Service_IN (TCP) 58889
- PipetteX SmartCheck Service_IN (TCP) 58890
- PipetteX Instrument Service_IN (TCP) 58888
- PipetteX LabX Integration Server_IN (TCP) 51138
- PipetteX LabX Integration Client_IN (TCP) 51159

Outbound Rule

- PipetteX Business Service Discovery_OUT (UDP) 3702
- PipetteX Business Service_OUT (TCP) 58889
- PipetteX SmartCheck Service_OUT (TCP) 58890
- PipetteX Instrument Service_OUT (TCP) 58888
- PipetteX LabX Integration Server_OUT (TCP) 51138
- PipetteX LabX Integration Client_OUT (TCP) 51159

*Default firewall ports are added during the installation.

Message Queue

Control Panel/System and Security/Administrative Tools --> Computer Management --> Services and Applications --> Message Queuing --> Private Queues --> pamactivitylog

4.1.2 Installation checker

The Installation checker tool delivered with PipetteX helps to identify errors and warnings that are open after the software installation.

PipetteX™ - Installation checker - Viewing <currentsystem> — □ ×</currentsystem>				
Save Open Print Print File	Check Zip Log System Files Execute View	ngs Expand Collapse All All About About		
Entry	Parameter1	Parameter2	Parameter3	Parameter4
				^
i IC Version	4.0.0.48			
IC Rating Definition Version	4.0.0.48			
IC Selected Components	Standalone			
👻 😫 System				
i PipetteX Version	PipetteX	4.0.0.48		
PipetteX Activation State	Not Activated			
Operating System	Windows 10 Enterprise Edition, 64- bit, 10.0.19044.0	Service Pack (None)	X64	English (United States)
 Installed Patches 	Installed Patch ID	Installed Patch Date		
System Localization	en-US	1234567890.00	Date (Short):03-Apr-23; (Long) :Monday, April 3, 2023; Time :5:08:59 PM	Keyboard :US
Installed Keyboard Layouts	en-US	1234567890.00	Date (Short):03-Apr-23; (Long) :Monday, April 3, 2023; Time :5:08:59 PM	Keyboard :US
System CPU (min. = 2 GHz)	Name : 11th Gen Intel(R) Core(TM) i7-1165G7 @ 2.80GHz	Type : Central Processor	Clock Speed : 1.69 GHz	Core: 4
System Memory (min. = 2 GB)	Total : 31.76 GB	Free : 17.77 GB		
i Current User	DHARMARA-2			
🕨 🪺 Group Membership	Name of the user			
Users and Groups	Name of the user	Assigned group		

4.1.3 Installation on x86 systems

The following conditions are applicable only for **Standalone system**:

- By default, the installer comes with an SQL server that supports only x64 systems. Hence fresh installation is not supported in x86 systems.
- If SQL server is already available on your PC, it is possible to install or upgrade PipetteX.

You can select a distributed system to install all PipetteX components on a single PC.



4.2 Distributed System

By selecting a distributed system, you can fully customize your setup.



i Note

- Only PipetteX-specific components and their associated services are removed when you uncheck the components during the modification operation. The third-party components like SQL Instance, Drivers, .Net, and MSMQ are not reverted, even if it was installed with PipetteX components.
- During modification operation, the existing firewall ports are not cleared. Only new firewall ports are added for the new component.

4.2.1 SQL server instance installation

To create a new SQL instance and to access over the network, follow the steps below:

1 Select the SQL Server instance option.

i Note

The Database Maintenance Tool option should be checked only when the PC hardware already contains the PipetteX database. Since it is a fresh installation, no database exists. Hence, the option is unchecked.

X Mettler-Toledo Rainin, LLC PipetteX™ —		\times					
Component Selection							
Please select the PipetteX $^{\mbox{\tiny TM}}$ components to be installed in this system.							
Client							
Business Server							
Database Maintenance Tool							
SQL Server Instance (MS SQL Server 2022Express Edition English)							
Cancel < <u>B</u> ack	<u>N</u> ext	>					

2 The screen below shows where you can specify the **Instance name**. Otherwise, the default name "PipetteX" is used for the new SQL server.

i Note

If you would like to use any of the existing SQL servers (either existing "PipetteX" or other named instances), then discard this setting. During "Business Server" installation, the system will ask you to fetch the existing SQL instances.

🔀 Mettler-Toledo Raini	in, LLC Pipett	teX™	-		\times
SQL Database	Server	Connectio	on		
To install SQL database SQL connection Instance name	e server, ple setup .\Pipette	ase specify a se X	rver instance name.		
		Cancel	< <u>B</u> ack	<u>N</u> ext	>

3 Click Install.

→ You agree to create SQL server as specified in the confirm installation settings page.

X Mettler-Toled	lo Rainin, LLC Pipet	teX™			-		\times
Confirm in	nstallation s	ettings					
Installation Path	C:\Program Files	(x86)\METTL	.ER T(OLEDO\Pip	etteX\		
Install/Update SQL Server/Dat - Instal	Space Available: 2 abase Operation I SQL Server '.\Pipe	etteX'	Spac	e Required:	2798	MB	
		Cancel		< <u>B</u> ack		Insta	II
SQL Server 2022							
Please wait whi	le Microsoft SQL Se	rver 2022 Setu	ıp proc	esses the c	urrent o	peration.	
➡ The SQL	server proceed	ls with the	insta	llation.			I
X Mettler-Toled	lo Rainin, LLC Pipet	teX™			_		\times
Installing	SQLServer						·

X Mettler-Toledo Rainin, LLC PipetteX™	_		\times
Installing SQLServer			
Cancel < B	ack	<u>N</u> ext >	>

4 After successful installation, restart the server (if prompted).



i Note

- Prerequisite installation of .Net 4.8 is not installed already
 - Restart mandatory, whether it's a PC client or server
- PipetteX installation: MSMQ (Message Queuing) not enabled already (installed along with Business Server)
 - Restart mandatory, installation is rolled back.
- SQL installation cannot proceed due to pending restart (installed along with SQL)
 - Restart mandatory, SQL Error code 2067919934

4.2.1.1 Supporting information

Ensure the components listed below are available after successful installation of SQL instance.

Services

- SQL Server (PIPETTEX)
- SQL Browser

i Note

Services run using Logon As user Network Service and Local Service respectively.

SQL Protocols

Control Panel/System and Security/Administrative Tools \rightarrow Computer Management \rightarrow Services and Applications \rightarrow SQL Server Configuration Manager \rightarrow SQL Server Network Configuration \rightarrow Protocols for PipetteX. Status \rightarrow Enabled for all protocols.

Firewall exceptions

Firewall exceptions are added automatically when installed using the PipetteX Installer. For existing SQL instances, refer Configure the Windows Firewall to allow SQL Server access.

i Note

• The service detail and SQL protocols above are specific to the new "PipetteX" instance created by the installer. If you are using an existing instance, ensure the services are up and running, permissions are granted on relevant protocols and firewall exceptions are set.

4.2.2 Business server installation

For a distributed setup, you must involve an IT admin with domain knowledge since it could require domain admin rights to setup the server.

i Note

- A Business Server installation is possible without the "SYSADMIN" access to the service account user
- The permissions below should be available for the user running the Business Server
 - "DBCREATOR" to establish connection between Business Server and DB Server
 - "DBOWNER" to backup and restore the database using third party tools
 - "Alter Any Login" to modify/repair the business service installation

Follow the steps below to install the **Business Server**:

1 Select the corresponding option from the **Component Selection** screen.

X Mettler-Toledo Rainin, LLC Pipet	teX™	_		\times
Component Selection				
Please select the PipetteX™ comp	onents to be insta	lled in this system.		
Client				
Business Server				
Database Maintenance To	ol			
SQL Server Instance (MS	SQL Server 2022	Express Edition Er	nglish)	
	Cancel	< <u>B</u> ack	<u>N</u> ext	>

- ➡ The following screen is displayed where you can either:
- Enter the domain user with Admin privileges for the SQL server to make the Business Server run seamlessly.
- Select NTAUTHORITY\NETWORK SERVICE from the Service Account drop-down list.

Option 1 – Default service account

🔀 Mettler-Toledo R	ainin, LLC Pipet	tteX™		-		×
Service Acc	ount					
Please select the u provide a password	ser account wh 1.	ich will be used	by Busines	s Service	. If require	d
Service Account	NT AUTHORI	TY\NETWORK S	ERVICE 🗸			
Password						
		Cancel	< <u>B</u>	ack	<u>N</u> ext	>

Option 2 – Domain user who has relevant access to SQL server

🔀 Mettler-Toledo F	Rainin, LLC Pipet	teX™	_		×
Service Acc	ount				
Please select the u provide a password	ser account wh 1.	ich will be used t	by Business Serv	ice. If required	
Service Account	apluadivel-2		~		
Password	•••••				
		Cancel	< <u>B</u> ack	<u>N</u> ext >	

- 2 After you select the **Service Account**, the installer proceeds with the database installation.
 - ➡ The following screen is displayed where you can either:
- Choose the SQL Server instance or edit the Instance name if the SQL Server instance is installed in a different subnet with the help of PC name or IP address.
- Provide the SQL Authentication details to have full access to the database if the SQL Server instance is installed with SQL Authentication.

There are two options to continue, either to specify the **PC name** or the **IP address** where the SQL instance exists:

Option 1 - Connect with the Database Server using IP details

X N	lettler-Toledo Rainin	, LLC PipetteX™	—		\times
so	QL Database	Server Connection			
Plea	ase provide SQL ser ┌─ SQL connection s	ver details etup			
	Instance name	172 29 125 122\PipetteX	>	•	
	Database name	PipetteXDB	Test conne	ection	
		Cancel	< <u>B</u> ack	<u>N</u> ext	>

i Note

You can only proceed after a successful connection test with the instance you have specified. If the connection fails, you can check for an error message by hovering over the fail icon in the tip tool.

• Select a time zone from the Time Zones drop-down list.

🔀 Mettler-Toledo R	ainin, LLC Pipet	teX™	_		\times
Time Zone S	Screen				
Please select a Tim	ie zone				
Time Zones	(UTC+05:30) C	Chennai, Kolkata, I	Vluml 🗸		
The selected server machi zone. This ad	l time zone shoi ine. All date/tim ction cannot be	uld match with the e columns in data reverted back on	e time zone of exis ibase will take and ce done.	ting business apply this tin	ne
		Cancel	< <u>B</u> ack	<u>N</u> ext >	

• Click Next.

🔀 Mettler-Toledo Rainin, LLC PipetteX [*]	и	_		\times
Business Server Port Co	onfiguration			
Define the ports for the Business Serve	er			
Business Server Port	58889			
SmartCheck Server Port	58890			
PipetteX LabX Integration Server Port	51138			
PipetteX LabX Integration Client Port	51159			
	Cancel	< <u>B</u> ack	<u>N</u> ext	>

• Click Install.

X Mettler-Toleo	do Rainin, LLC Pipett	eX™		_		\times
Confirm i	nstallation s	ettings				
Installation Path	C:\Program Files (x86)\METTI	LER TO	LEDO\Pipette	</th <td></td>	
	Space Available: 42	24904 MB	Spac	e Required: 11	03 MB	
Install Business Enable MSMQ Install/Update - MT F - SX V SQL Server/Dal - Use (- Crea	Server TDI Driver Beneric USB Serial F lirtual Link Lite tabase Operation existing SQL Server le Database - 'Pipet!	°ort teXDB'	protect-4	NPIPETTEX'		
		Cancel		< <u>B</u> ack	Inst	all

Option 2 - Connect with the Database Server using PC name details

• Click Next.

X M	lettler-Toledo Rainin	, LLC Pipett	eX™		—		×
sc	QL Database S	Server	Connecti	on			
Plea	ase provide SQL serv	ver details etup ——					
	Instance name	INTTW-V	Pipet	teX	~	6	
	Database name	PipetteXI	DB				
					Test conn	ection	
			Cancel		< <u>B</u> ack	<u>N</u> ext	>

• Enter the ports for the Business Server and click Next.

🔀 Mettler-Toledo Rainin, LLC PipetteX [*]	м	_		\times
Business Server Port Co	onfigurati	on		
Define the ports for the Business Serve	er			
Business Server Port	58889			
SmartCheck Server Port	58890			
PipetteX LabX Integration Server Port	51138			
PipetteX LabX Integration Client Port	51159			
	Cancel	< <u>B</u> ack	<u>N</u> ext	>

• Click Install.

X Mettler-Toled	lo Rainin, LLC PipetteX™		_		×
Confirm i	nstallation setting	js			
Installation Path	C:\Program Files (x86)\MI	ETTLER	TOLEDO\PipetteX	\	
	Space Available: 376496 M	IB Sp	bace Required: 110	3 MB	
Install Business Install/Update - MT F - MT G - SX W SQL Server/Dat - Use 6 - Creat	Server TDI Driver Generic USB Serial Port irtual Link Lite tabase Operation existing SQL Server ' te Database - 'PipetteXDB'	VADIVE	PipetteX'		
	Са	incel	< <u>B</u> ack	Insta	III

i Note

- The line item Enable MSMQ will be displayed only when the feature is not enabled in the hardware.
- Choose any one of the options mentioned above to install the Business Server component. Installation starts with enabling MSMQ feature in the PC hardware as SQL instance exists already on the remote server.

🔀 Mettler-Toledo Rainin, LLC PipetteX™	- 🗆	\times
Installing PipetteX™		
Enabling MSMQ		
Cancel	< <u>B</u> ack <u>N</u> ext >	>

3 The installation continues with the creation of a new "PipetteXDB" database in the selected SQL instance.

🔀 Mettler-Toledo Rainin, LLC Pipet	teX™	_		\times
Installing PipetteX™				
Creating Database				
	Cancel	< <u>B</u> ack	<u>N</u> ext	>

- 4 The installer then proceeds with installing the Business Server and associated components.
- ➡ After successful installation, restart the server if prompted.



i Note

If you see the error message below during Business Server installation (even after proper configuration), refer to this link to update your registry entries https://support.pitneybowes.com/
 VFP06_KnowledgeWithSidebarTroubleshoot?id=kA21E000000fxn4SAA&popup=false&lang=en_US

tabase Server Connection de SQL server details onnection setup ce name IN11W-ITS-95 see name PipetteXDB Test connection uthentication SQL Server does not exist or access den ame ford Connect	🔀 Mettler-Toledo Rainii	n, LLC PipetteX™	-		\times
de SQL server details onnection setup ce name IN11W-ITS-95 V Connection ase name PipetteXDB Connect	SQL Database	Server Connect	ion		
ce name IN11W-ITS-95 See name PipetteXDB Uthentication SQL Server does not exist or access den ame cord Connect	Please provide SQL ser	ver details setup			
ase name PipetteXDB Test connection uthentication SQL Server does not exist or access den ame cord Connect	Instance name	IN11W-ITS-95	•	· 🕞	
	Database name	PipetteXDB			
sQL Server does not exist or access den same sord Connect			Test con	nection	
name rord Connect	- SQL Authentication	n	SQL Server de	oes not exist	t or access den
Connect	User name				
Connect	Password				
			Con	nect	
			Con	nect	

4.2.2.1 Supporting information

Ensure the components listed below are available after successful Business Server installation.

Services

- PipetteX Audit Service
- PipetteX DB Utility Scheduler Service
- PipetteX Instrument Service
- PipetteX Scheduler Service
- PipetteX LabX Integration Service
- PipetteX SmartCheck Service

*Services run using the **Logon As user** you specified during installation (e.g., Network Service or designated user who has relevant access to the database).

Firewall Ports

Control Panel\All Control Panel Items\Windows Firewall or Windows Defender Firewall depending on the Windows version --> Advanced Settings

Inbound Rule

- PipetteX Business Service Discovery_IN (UDP) 3702
- PipetteX Business Service_IN (TCP) 58889
- PipetteX SmartCheck Service_IN (TCP) 58890
- PipetteX LabX Integration Server_IN (TCP) 51138
- PipetteX LabX Integration Client_IN (TCP) 51159

Outbound Rule

- PipetteX Business Service Discovery_OUT (UDP) 3702
- PipetteX Business Service_OUT (TCP) 58889
- PipetteX SmartCheck Service_OUT (TCP) 58890
- PipetteX LabX Integration Server_OUT (TCP) 51138
- PipetteX LabX Integration Client_OUT (TCP) 51159

*Firewall ports are added based on the user input provided during the installation.

Message Queue

Control Panel/System and Security/Administrative Tools \rightarrow Computer Management \rightarrow Services and Applications \rightarrow Message Queuing \rightarrow Private Queues \rightarrow paractivitylog

4.2.3 Database maintenance tool installation in database server (optional)

Along with other features, the Database Maintenance Tool is used to backup and restore your database.

i Note

- The tool must be installed on to the same PC where the database is installed.
- The Database Maintenance Tool also works for the user with:
 - "DBOWNER" access for the database
 - "DBCREATOR", "Alter any login" and "View Server state" access for the instance

Option 1: Before installing Database Maintenance Tool, consider using a database created in any of the existing SQL Instance

1 Select the Database Maintenance Tool check box and click Next.

🔀 Mettler-Toledo Rainin, LLC Pipett	eX™	_		\times
Component Selection				
Please select the PipetteX™ comp	onents to be insta	alled in this system.		
Client				
Business Server				
✓ Database Maintenance Too	bl			
SQL Server Instance (MS	SQL Server 2022	Express Edition Er	nglish)	
	Cancel	< <u>B</u> ack	<u>N</u> ext >	>

i Note

The **Database Maintenance Tool** option should be checked only when the PC hardware already contains a PipetteX database.

Option 2: When installing the Database Maintenance Tool, consider using a database created in the PipetteX instance

2 Select the Modify your current PipetteX installation check box.

🔀 Mettler-Toledo Rainin, LLC PipetteX™	_		\times
Welcome to PipetteX™ Maintena	nce Setup		
Please select an action			
● Modify your current PipetteX [™] installation			
○ Repair your current PipetteX [™] installation			
○ Remove PipetteX [™] from your computer			
	Cancel	<u>N</u> ext	t>

3 Click Next
4 Select the Database Maintenance Tool check box and click Next.

X Mettler-Toledo Rainin, LLC PipetteX™ —		\times
Component Selection		
Please select the PipetteX $^{\mbox{\tiny TM}}$ components to be modified in this system.		
Client		
Business Server		
✓ Database Maintenance Tool		
Cancel < <u>B</u> ack	<u>N</u> ext	>

5 Provide the service account information - Service Account and Password.

ount			
er account which will be used by DE rord.	Utility Schedu	ller Service	e and
AP\bala-2			
•••••			
ccount must have DB backup rights	< Dack	Maut	
	er account which will be used by DB vord. AP\bala-2 	er account which will be used by DB Utility Schedu AP\bala-2 	er account which will be used by DB Utility Scheduler Service AP\bala-2 •••••• ccount must have DB backup rights. Cancel<

Continue with any of the options provided above. The installer checks for SQL instance and a valid database instance before you can install this tool.

6 Select the database instance from the Instance name drop-down list.

X N	lettler-Toledo Rainin	, LLC PipetteX™	_		\times
so	QL Database S	Server Connection			
Plea	ase provide SQL serv	ver details			
	SQL connection s	etup			7
	Instance name	.\PipetteX	~	Θ	
	Database name	PipetteXDB			
			Test conne	ction	
	Create a backup of th	ne database during installation			
		Ū.			
		Cancel	< <u>B</u> ack	<u>N</u> ext	: >

i Note

As a follow-up to the distributed installation specified, the "PipetteX" instance created above as the reference. If you are using an existing instance, ensure the relevant instance is selected.

7 Select a time zone from the Time Zones drop-down list.

X Mettler-Toledo Rainin, LLC PipetteX™ —		\times
Time Zone Screen		
Please select a Time zone		
Time Zones (UTC+05:30) Chennai, Kolkata, Muml The selected time zone should match with the time zone of existing server machine. All date/time columns in database will take and a zone. This action cannot be reverted back once done.	ng busine apply this	ss time
Cancel < <u>B</u> ack	<u>N</u> ext	>

8 Click Next

Once the valid SQL instance and the database are selected and the test connection is successful, the installer allows you to proceed with installing the Database Maintenance Tool.

X Mettler-Toled	o Rainin, LLC PipetteX™	-		×
Confirm ir	nstallation settings			
Installation Path	C:\Program Files (x86)\METTI	LER TOLEDO\PipetteX\		
	Space Available: 11782 MB	Space Required: 100 MB	1	
SQL Server/Data - Use e - No op	abase Operation xisting SQL Server '.\PipetteX' eration required - 'PipetteXDB'			

9 Click Modify.

X Mettler-Toledo Rainin, LLC PipetteX™	_		\times
PipetteX™ installed successfully			
The installation program successfully completed the require	d ope	rations.	
View installation log			
	[Finis	h

i Note

If no valid database exists in the selected SQL instance, the installation wizard will notify you that the test connection has failed. The error message dialog box below appears when you click the error icon.

🔀 Mettler-Toledo Rainin	n, LLC PipetteX™	_		\times
SQL Database	Server Connection			
Please provide SQL ser	ver details			
SQL connection s	etup			
Instance name	.\PipetteX	~	G	
Database name	PipetteXDB			
	×	Test conne	ection	
				6.4C)
	Cancel	< <u>B</u> ack	<u>N</u> ext	>
PipetteX™ DB Maintenar database shor installation.	nce tool could be installed only o uld exist. Please select local insta	on local instance ince for DB Mai	e and also ntenance	valid tool
			OK	

4.2.4 Client component installation

Follow the instructions below to install the PipetteX Client onto your PC:

1 Select the **Client** option from the **Component Selection** screen.

X Mettler-Toledo Rainin, LLC PipetteX™	_		\times
Component Selection			
Please select the PipetteX [™] components to be installed in t	his system.		
✓ Client			
Business Server			
Database Maintenance Tool			
SQL Server Instance (MS SQL Server 2022 Expres	s Edition Englis	sh)	
Cancel <	<u>B</u> ack	<u>N</u> ext >	

2 Click Next.

Option 1: You will be prompted to choose the **Business Server address** from the screen below. The installation wizard, by default, fetches the firewall ports defined in Business Server for communication, while we select a Business Server from the list. The firewall ports displayed in this case are not editable:

🔀 Mettler-Toledo Rainin, I	LC PipetteX	тм		_		\times
Business Serve	r Conne	ection				
Please provide existing B	usiness Ser	ver configurat	ion details.			
Business server address	IN11S-LAB	01	~	C		
Business Server Port	58889					
SmartCheck Server Port	58890					
		Cancel	< <u>B</u> a	ck	<u>N</u> ext	>

Option 2: If the Business Server is not listed for any reason. You must enter the Business Server name or its IP address to continue. In this case, it is your responsibility to provide the correct firewall ports during Business Server installation. If not, this may lead to installation failure.

🔀 Mettler-Toledo Rainin, I	LC PipetteX™	—		\times
Business Serve	Connection			
Please provide existing B	usiness Server configuration details.			
Business server address	172.29.124.89	C		
Business Server Port	58889			
SmartCheck Server Port	58890			
	Cancel < Ba	ack	<u>N</u> ext	>

🔀 Mettler-Toledo Rainin, I	LLC PipetteX™	_	\Box \times
Business Serve	r Connection		
Please provide existing B	usiness Server configuration detail	ls.	
Business server address	IN11W-ITS-LAP13		
Business Server Port	58889		
SmartCheck Server Port	58890		
	Cancel <	<u>B</u> ack	<u>N</u> ext >

i Note

- You can have multiple Business Servers existing in the network, hence the need to choose the correct one. Once selected, you cannot change the Business Server. To change the Business Server, you need to return the installation wizard and choose the appropriate Business Server.
- 3 Select one of the following Business Server account:
- System account Select this option only when Business Server is running using Log On As Network service or Local service. You can find the service information by typing services in the windows search bar. The Services window appears as shown in the image below.
- User account In Windows Active Directory, a User Principal Name (UPN) is the name of a system user in an email address format. e.g, john.doe@domain.com consists of the user name (logon name), separator (the @ symbol), and domain name (UPN suffix). A UPN is not the same as an email address.

If you select **User account**, enter the **User principal name**. For more information, see User Principal Name.

🔀 Mettler-Toledo Rainin, LLC Pipet	teX™	_		
Business Server Con	nection			
Please provide Business Server U	ser Account details			
System account (Network servi User account	ce \ Local service)			
User principal name				
Note : Please enter the valid user p	principal name, else	e the installation w	rill fail.	
	Cancel	< <u>B</u> ack	<u>N</u> ext >	

- 4 Click Next.
- 5 The screen below shows the user has specified the client port 58888 to communicate with the **Business Server**.

🔀 Mettler-Toledo Ra	inin, LLC Pipett	eX™	—		<
Client Port C	onfigurat	tion			
Define the port for th	e Client				
Client Port	58888				
		Cancel	< <u>B</u> ack	<u>N</u> ext >	

6 Confirm the installation of the client component and relevant device drivers. Click Install.

X Mettler-Toled	lo Rainin, LLC PipetteX	тм		-			\times
Confirm i	nstallation set	tings					
Installation Path	C:\Program Files (x8	6)\METT	LER TOL	EDO\Pipette	X١		
	Space Available: 2482	22 MB	Space F	Required: 72	MB		
Install Client Install/Update - MT F - MT G - FTDI	TDI Driver ieneric USB Serial Por Driver	t					
		Cancel		< <u>B</u> ack		Insta	I

7 After successful installation, restart your PC if prompted.



4.2.4.1 Supporting information

Ensure the components listed below are available after successful client installation:

Service

PipetteX Instrument Service

*Service run using Logon As user as Network Service.

Firewall Ports

Control Panel/All Control Panel Items/Windows Firewall or 'Windows Defender Firewall' depending on the Windows version --> Advanced Settings

Inbound Rule

• PipetteX Instrument Service_IN - 58888

- Outbound Rule
- PipetteX Instrument Service_OUT 58888

*Firewall ports are added based on the user input provided during the installation.

4.2.5 Installation Checker

The Installation Checker tool that is delivered as part of the PipetteX application is part of the distributed installation and helps to identify errors and warnings that are open after the distributed software is installed.

i Note

Launch the Installation checker tool as an Administrator, otherwise the tool may not function properly.

X			Pipet	teX™ - Installation checker	- Viewing	<currentsystem></currentsystem>	-	×
Save	Open Print Print File	Check System	ors ors and Warni View	ngs Expand Collapse All All Options	About			
Entry		Parameter1		Parameter2		Parameter3	Parameter4	
- 9	Installation checker							^
	i IC Version	3. <mark>0</mark> .0.19						
	IC Rating Definition Version	3.0.19	🐚 Installation	Options	×			
	IC Selected Components	Standalone	Installed type Standalone	e 🔿 Distributed				
-	System		Configuration					
	1 PipetteX Version	PipetteX	✓ Client	er Sonior				
	PipetteX Activation State	Activated	Dusiness server Database Database Server					
	Operating System	Windows 10 Enterpr bit, 10.0.16299.0	✓ Da	tabase maintenance tool		X64	English (United States)	
•	1 Installed Patches	Installed Patch ID		Check System				
	System Localization	en-US		1234301050.00		Date (Short):17-Jun-20; (Long) :Wednesday, June 17, 2020; Time :12:54:01 PM	Keyboard :US	
	Installed Keyboard en-US i Layouts			1234567890.00		Date (Short):17-Jun-20; (Long) :Wednesday, June 17, 2020; Time :12:54:01 PM	Keyboard :US	
	System CPU (min. = 2 GHz)	Name : Intel(R) Core(TN CPU @ 3.40GHz	vl) i5-7500	Type : Central Processor		Clock Speed : 3.41 GHz	Core: 4	
	System Memory (min. = 2 GB)	Total : 15.89 GB		Free : 10.40 GB				
	1 Current User	vadivel-2						
•	\rm Group Membership	Name of the user						
►	1 Users and Groups	Name of the user		Assigned group				
- 3	Network							~

4.3 Upgrading your Existing PipetteX

4.3.1 Upgrade from EasyDirect PAM 1.x to PipetteX 3.x

If you are migrating from EasyDirect PAM 1.x, read through the scenario below to define your path of migration. Otherwise, continue to section [License Activation and Management \triangleright Page 55].

Upgrade path	PipetteX setup before upgrade	Recommended license for PipetteX	Ac	tions required
1.x to PipetteX 3.x	Standalone and ≤200 assets and/or ≤5 connected SmartStands	Standalone (free version) Connected version (either Site license or Unlimited license). You can decide for standalone or distributed installation	1 2 3 4 5	Export all asset information from your 1.x installation, using the export functionality on the asset tab. You cannot export the data from the address tab or users tab. If you have a large database, contact METTLER TOLEDO before continuing. Remove EasyDirect PAM 1.x, including the database. Install PipetteX Activate your license Import all your assets using the import functionality of PipetteX
	Standalone and >200 assets and/or >5 more connected SmartStands	Connected version (either Site license or Unlimited license). You can decide for standalone or distributed installation	1 2 3 4	Export all asset information from your 1.x installation, using the export functionality on the asset tab. You cannot export the data from the address tab or users tab. If you have a large database, contact METTLER TOLEDO before continuing. Remove EasyDirect PAM 1.x, including the database. Ensure you purchase the correct license key Install PipetteX
			5	Activate your license
			6	Import all your assets using the import functionality of PipetteX

4.3.2 Upgrade from EasyDirect PAM 2.x to PipetteX 4.x

You cannot upgrade directly from EasyDirect PAM 2.x to PipetteX 4.0.1, or later versions. To upgrade to any of these versions, you must first upgrade to 4.0.

i Note

PipetteX versions earlier than 3.0 are not supported.



NOTICE

Distributed systems

For those that have deployed EasyDirect PAM 2.x as a server-client system, follow the steps below.

To upgrade from EasyDirect PAM 2.x to PipetteX 4.0, follow the steps below:

1 To download any PipetteX version between 3.x and 4.0, contact your local METTLER TOLEDO representative.

- 2 Create a backup of your database (you can use the DB utility tool for this or run a backup with your SQL tools), see the section Database Utility.
- 3 Go to your business server environment and run the Pipettex Setup.exe file and choose to run: a. the business server component
 - b. the database component

c. install the Silex Virtual Link lite component on your business server. See the section Gateway for more information on the Silex Virtual Link lite component

- 4 Update every connected client by running the Pipettex Setup.exe file and choose to run the client part.
- 5 Reconnect every client to your business server using the wizard of PipetteX.
- EasyDirect PAM application will be migrated to PipetteX.

Once PipetteX 4.0 is installed, the application automatically checks for new updates every day (if connected to the internet), informs you, and lets you install any available updates. You can also manually check if the latest version of PipetteX is available from the **About** window.

i Note

- When installing PipetteX 4.0, the existing database will be automatically upgraded (if applicable).
- The Timezone selection pop-up appears during the upgrade from 2.x to 4.0.
- After upgrading from EasyDirect PAM 2.x to PipetteX 4.0, proceed with upgrading to PipetteX 4.0.1 or above.
- Distributed Setup:
 - Before you initiate the software upgrade process in a distributed setup, ensure the latest setup file of PipetteX is available in the Business Server and all the client hardware (see C:\Users\Public\Mettler Toledo\EasyDirect PAM\Updates).
 - After a successful upgrade, all existing user configurations (e.g., language settings, column chooser, user roles, notifications, methods, or auto export configuration) set in the previous version may change. You must configure it again in the new software version.

4.3.3 Upgrade from PipetteX 3.x to PipetteX 4.x

You can upgrade from PipetteX 3.x to PipetteX 4.x by downloading the software from http://www.mt.com/pipettex and running the .exe file. Your PipetteX 3.x application should automatically migrate to PipetteX 4.x.

It is strongly advised to back up your database and read the breaking changes (in the installation wizard) before running the upgrade.

i Note

- Ensure you have appropriate DB backup rights.
- Ensure you update the business server first, followed by the client-server to use PipetteX.
- The Timezone selection pop-up appears during the upgrade from 3.x to 4.x. The Timezone selection does not appear when upgrading from 4.x to higher versions.
- 1 Download PipetteX 4.x.
- 2 Make a backup of your database (you can use the DB utility tool for this or run a backup with your SQL tools). See the section Database Utility.
- 3 Go to the business server environment, run the Pipettex Setup.exe file and choose to run:
 - a. the business server component
 - b. the database component

c. install the Silex Virtual Link lite component on your business server. See section Gateway for more information on the Silex Virtual Link lite component

- 4 Update every connected client by running the Pipettex Setup.exe file and choose to run the client part.
- 5 Reconnect every client to your business server using the wizard of PipetteX 4.x.

4.4 Troubleshooting

Problem 1: MSMQ requires a PC restart to enable its component, if not enabled already

Installation may not have been successful because the audit service for PipetteX can only be restarted if MSMQ is enabled. You can find details in the log files specified below:

- MSIPipetteX_%.log [Path: "C:\Users\Admin\AppData\Local\Temp"] Error 1920. The service "PipetteX Audit Service" failed to start. Verify that you have sufficient privileges to start system services.
- PipetteX.AuditLog.Service.Host [Path: "<Installation Directory>\Logging"] Message: Windows service OnStart: The Type Initializer for "System.ServiceModel.Channels.Msmq" caused an exception.
- Solution: PC restart is mandatory

Problem 2: Installation failed due to a SQL error code -2067919934

Installation of the new SQL instance using the installation wizard will not be completed when a PC restart event is pending due to any previous installation.

• Solution: PC restart is mandatory

Problem 3: Your PC has EasyDirect software installed, and you have deleted an older version of PipetteX and tried to install a newer version

Installation failure can occur due to a conflict between PipetteX and EasyDirect software, both of which rely on the **Windows Management Instrumentation** service. This conflict can lead to a quota violation.

• **PipetteX.Service.SA.Host.log** [Path: "<Installation Directory>\Logging"] Message: Exception message: Quota violation

Mettler-Toledo Rainin, LLC PipetteX™ —		\times
PipetteX™ installation failed		
The installation could not complete the operation successfully. P file for more information.	lease refe	r log
View installation log	Finis	-h

• Solution: Either restart the "Windows Management Instrumentation" service from services.msc (or) restart the PC manually and retry the installation.

Problem 4: The date and time format of the test report do not match the PC date and time

In PipetteX standalone condition, when there is any update in PC date and time, the change is not reflected automatically in PipetteX test reports.

• Solution: Restart your PC twice to synchronize the date and time between PC and PipetteX.

Problem 5: Installation failed with message "Unable to start/stop Instrument service"

Installation failure can occur depending on the service startup type selected.

Solution: You can follow the steps below to complete the installation:

1 Type "services" in the Windows search bar and select Run as administrator.



2 Check SQL Server (PipetteX) and set the startup type from Automatic (Delayed Start) to Automatic by right-click on the "service" → Properties → Change Startup type.

Q SQL Server (PIPETTEX)	Provides storage, processin	Running	Automatic	Network Service
SQL Server Agent (PIPETTEX)	Executes jobs, monitors SQ_		Disabled	Network Service
SQL Server Browser	Provides SQL Server connec	Running	Automatic	Local Service

- If the startup type is still Automatic (Delayed Start), then restart the WMI (Windows Management Instrumentation) Service on both the client and server, depending on the setup.
- If the Instrument Service is stuck in the "Starting" state and did not get removed after installation failure, change the startup type to "Manual" and restart the PC. If this does not work, disable the instrument service and restart the PC again.

Problem 6: Installation failed due to "DB Scheduler service" failed to start.

Installation failure can occur depending on the user permission to make a database backup.

• Solution: Ensure you have permission on the database to make a backup and perform installation again. For more information about permission, see the [Business server installation ▶ Page 25] section.

Problem 7: Unable to connect to PipetteX business server

After successful installation, PipetteX can give below error:



Solution: You can follow the steps below to connect to PipetteX business server

1 Open "Services" window and check if all the PipetteX services are running properly (see the third and fourth columns).

Directto V Audit Service	Dipatta V Audit Caprica	Pupping	Automatic	Natural Sanica
San Pipettex Audit Service	Pipettex Audit Service	Kunning	Automatic	Network Service
Call PipetteX Business Service	PipetteX Business Service	Running	Automatic	Network Service
RipetteX DBUtility Scheduler Service	PipetteX DBUtility Schedule	Running	Automatic	AP\mulla-2
RipetteX Instrument Service	PipetteX Instrument Service	Running	Automatic	Network Service
RipetteX LabX Integration Service	PipetteX LabX Integration S	Running	Automatic	Network Service
RipetteX Scheduler Service	PipetteX Scheduler Service	Running	Automatic	Network Service
RipetteX SmartCheck Service	PipetteX SmartCheck Service	Running	Automatic	Network Service

2 Ensure SQL Server (PipetteX) and SQL Server Browser services are running.

Q SQL Server (PIPETTEX)	Provides storage, processin	Running	Automatic	Network Service
🖏 SQL Server Agent (PIPETTEX)	Executes jobs, monitors SQ		Disabled	Network Service
🖏 SQL Server Browser	Provides SQL Server connec	Running	Automatic	Local Service

3 Restart WMI (Windows Management Instrumentation) Service.

Problem 8: USB instruments like SmartCheck or EasyScan are not getting recognized by PipetteX

You may observe that your EasyScan or SmartCheck is not detected in PipetteX. One reason could be the Windows power setting option.

- Solution: Restart the "PipetteX Instrument Service", then start the "PipetteX Tray", and reconnect the instruments by unplugging and plugging them back into the USB port.
- If the **Device Manager** detects instruments, then change the power settings as follows:
- 1 No USB device in the device manager at the beginning.

📇 Device Manager	_	×
<u>File Action View H</u> elp		
V 📇 IN11W-BHARATH2L		 ^
> 🗸 Audio inputs and outputs		
> 🔊 Batteries		
> 🚯 Bluetooth		
> 👰 Cameras		
> 💻 Computer		
> 🔤 Disk drives		
> 🙀 Display adapters		
> 🎽 Firmware		
> 🚽 FortiDeviceGuard		
> 🐺 Human Interface Devices		
> 🔤 Keyboards		
> 🛄 Memory technology devices		
> 🕕 Mice and other pointing devices		
> 🛄 Monitors		
> 🕎 Network adapters		
V 📮 Ports (COM & LPT)		
Standard Serial over Bluetooth link (COM16)		
Standard Serial over Bluetooth link (COM17)		
> 🚍 Print queues		
> Processors		
> 📓 Security devices		
> 🔚 Sensors		
> 📲 Software components		
> Software devices		
Sound video and name controllers		¥

2 After you plug in the instrument, you will see that the device is recognized inside **Device Manager** but not in PipetteX.

X Pip	etteX™ - v4.	1.0.19					METT	LER TOLEDO R	ainin	
Dashb	oard Asse	ts SmartChecks/Ba	lances Peripherals	Address	gement Metrology an	d quality	Help Licen:	se manager 163		
Read	ers									
Eve	Connecti	Manufacturer	Model number	Serial number	Asset ID	Firmware version	Connected gatewa	y Address ID		
		Search	Search	Search	Search	Search	Search	Search		
				Image: Second secon	Action View Help Action View Help Action View Help Action Discover and the second Action inputs and of Butteries Butteries Butteries Computer Disk drives Computer Disk drives FortiDeviceGuard Firmware FortiDeviceGuard Firmware FortiDeviceGuard Firmware FortiDeviceGuard Hemory technolo Memory	Devices gy devices inting devices) COM4) COM4) ints	OM16) OM17)			

3 Check the event logs. You will see two information events under **System** logs.

Event 1: Driver exit RTD3

All the connected devices will now cause DeviceConnected events.

Event Viewer File Action View Help Image: State			
Event Viewer (Local)	System Number of events	6,493	
Custom Views Custom Views Reveal Application Security Security	Level (2) Information (2) Information (2) Information (3) Information (4) Information (4) Information (5) Information (5) Information	Date and Time 31-05-2023 11:4205 31-05-2023 11:4205 31-05-2023 11:41:27 31-05-2023 11:41:11 31-05-2023 11:40:17 31-05-2023 11:40:17 31-05-2023 11:30:19 31-05-2023 11:30:19 31-05-2023 11:30:19	Source nhi nhi nhi UserModeP Time-Servic UserPhp UserPhp
	Event 9008, nhi General Details Driver exit RTD3. All the connected device	s will now cause DeviceConnected events.	

Event 2: The driver entered RTD3

All connected devices will be removed from the driver's internal state, so DeviceDisconnected events are expected.

le Action View Help			
🕈 🖄 🖬 📓 🖬			
Event Viewer (Local) System N	iumber of events: 6,493		
Custom Views	Date and Time	Source	
Analyzation	ion 31-05-2023 11:42:	05 nhi	
Security Informat	ion 31-05-2023 11:412	49 nhi	
Setup Informat	ion 31-05-2023 11:41:	27 nhi	
System	ion 31-05-2023 11:41:	11 nhi	
Forwarded Events	ion 31-05-2023 11:40.	48 UserModePowerSe	rvice
Applications and Services Loc D Informat	ion 31-05-2023 11:40:	17 Time-Service	
Subscriptions	ion 31-05-2023 11:39:	19 UserPhp	
Distances	an 21.0E 2022 11-29-	40 Ukatóna	
Event 9007,	nhi		
General	Details		
	1.000		-
The driv	er entered RTD3.		

If you see the above events, then the below solution must be applicable:

- 1 Navigate to Control Panel > Hardware & Sound > Power Options > Edit Plan Settings.
- 2 Select Change advanced power settings.
- 3 Expand the USB Settings drop-down.
- 4 Expand the **USB selective suspend setting** drop-down.
- 5 Select **Disabled** from the drop-down for **On battery** and **Plugged in**.
- 6 Click **Apply**, then **OK** to save the settings. You may need to restart your PC.

Power Options	?	×	vents available
Advanced settings			ste and Time Source
Select the power plan that you want to and then choose settings that reflect ho your computer to manage power.	customize w you war	nt.	> Hardware and Sound > Power Options > Edit Plan Settings v ()
High performance [Active] (B) Internet Explorer (B) Desktop background settings (B) Wireless Adapter Settings (C) Elinea		^	Change settings for the plan: High performance Choose the sleep and display settings that you want your computer to use.
USB settings USB setective suspend setting USB selective suspend setting			2 Turn off the display: 10 minutes 15 minutes
Plugged in Disabled			Put the computer to sleep: Never Never
PCI Express Processor power management Directore		~	Change advanced power settings
Restore plan	n defaults		Restore default settings for this plan

• If you plug in the device, you can see the tray notification (bottom right corner) and EasyScan USB in the device manager.

X Pipette	X ^m - v4.1	.0.19						MET	TLER TOL	DO Ra	inin		🙎 Admin	- 6	×
ñ	P Y		×	오 🛓	N 8		¢°	0	尊						
Dashboan	Assets	s SmartChecks/Bale	inces Peripherals	Address User man	agement Metrology	and quality S	ettings	Help Lice	inse manager 163						
Readers												\overline{T}_0	00	i	
Eve Co	nnecti I	Manufacturer	Model number	Serial number	Asset ID	Firmware ve	ersion (Connected gates	way Address)					
		Search	Search	Search	Search	Search		Search	Search						
	1	Mettler Toledo	EasyScan USB	C047550867		1.1.0.1									4
													Pipetta EaryScan US	××**	067 is
												9	connected.		
EasyScan	ISB - C0475	550867 is connected.													

• The instrument is detected, and the following pop-up appears.

X Pipe	etteX™ - v4.	1.0.19							1	METTL	ER TOLEDO R	ainin
Dashbo	pard Asse	ts SmartChecks/Ba	alances Peripherals	Q Address	User manageme	nt Metrology a	nd quality	Settings	() Help	License 1	manager 63	
Read	ers											
Eve	Connecti	Manufacturer	Model number	Serial nu	Imber Ass	et ID	Firmwar	e version	Connected of	gateway	Address ID	
		Search	Search	Search	Sec	irch	Search		Search		Search	
File	Action Vi	er ew Help 🔽 🎫 🔛 💺	× •					_	• ×			
	Batterie	nputs and outputs is hth								Pip	oetteX™	
	 Computer Computer Computer	ter ves adapters re viceGuard I Interface Devices rds						An in: want	strument with to add it?	serial nun	nber 'C047550867' h	as been detected. Do you Yes No
	Memori Mice au Morito Ports (C Eas Star Star Star Star Star Star Star Star	y technology devices nd other pointing devi rs k adapters COM & LPT) S/Scan USB (COM4) ndard Serial over Bluet ueues cors y devices is re components	ices tooth link (COM16) tooth link (COM17)						v			

 If you do not see the option to change the USB settings, follow the Microsoft document to enable it, and then try the above steps again using > Why no USB Settings in Advanced Power Settings?

4.5 Logging in for the First Time

- If you have never logged in to PipetteX before or you still have to set up PipetteX for the first time, you must follow the manual sign-in procedure.
- 1 Manual sign-in is possible using the desktop shortcut X or from the start menu **METTLER TOLEDO > PipetteX/PipetteX with Login**.
- 2 Use "Admin" (capital A) for both User ID and Password.
- 3 It is recommended to change the password of the default admin account.
- 4 Consider your account and password policies. For more information, see section Security.
- 5 If you have activated SSO under **Settings** > **Settings (with policies)** > **Security**, you can start setting up the SSO user accounts for future log-ins.

5 Separate Driver Installation

5.1 USB Drivers

5.1.1 SmartStand

When you connect the SmartStand to the PC via USB cable, the PC automatically recognizes the required device driver. If the automatic driver installation does not work, download the driver from > Drivers and install it.

After downloading the driver from the site, run the installation before connecting the SmartStand. A reboot might be required after the driver installation.

i Note

You need to wait until the drivers are installed successfully. Then you will get a status notification on the driver installation. Once the drivers are installed successfully, unplug, and plug in the USB cable again for the PipetteX to detect the SmartStand.

5.1.2 EasyScan Flex

Connecting the EasyScan Flex using a serial cable does not require driver installation.

When using a USB Serial cable, use a null modem/gender changer adapter and that the drivers of the USB Serial cable are installed before plugging in the cable the first time.

After successful driver installation, you will see an additional (virtual) COM Port in your windows system.

A reboot may be required after the driver installation.

i Note

In some PCs, after recovering from Sleep/Hibernate (particularly when using a docking station), the port does not work properly though the port is still available. You must unplug and then plug in the cable for communication to resume.

5.1.3 Bluetooth dongle

Either the built-in Bluetooth from your laptop or a supported USB-BT dongle can be used to communicate with SmartStands. For a dongle, we recommend using dongle LM506 which is available from METTLER TOLEDO. Dongles tested successfully with PipetteX:

LM506 (Broadcom stack)

- ASUS USB-BT400 (Broadcom stack)
- Trendnet TBW-106UB (CSR with Win stack)
- Startech USBBT1EDR4 (CSR with Win stack)
- LAIRD ST820 (TDK with Win stack)

Drivers for USB-BT dongles come with the dongle. If necessary, you can find the driver for the LM506 USB-BT dongle here: http://www.lm-technologies.com/downloads/software/

After successful driver installation, you will see an additional (virtual) COM Port in your windows system. A reboot might be required after the driver installation.

5.1.4 Silex Gateway

The Silex Gateway connected via Ethernet is recognized since the required device driver is installed by the PipetteX installer where the Business Server component is installed.

Limitation

The PC will force a restart when the Silex Lite app is installed above the Silex Desktop app either manually or through PipetteX installer.

- The PipetteX installer contains only the Silex Lite app and its driver. The Silex Desktop app is not part of the provided installer. Therefore, a force reboot will not happen in a new PC.
- If the PC used for the PipetteX installation is pre-installed with Silex Desktop app, then you should uninstall the component before PipetteX installation. Otherwise, PC will force a restart after PipetteX installation.

• If you try to install Silex Desktop app over the PipetteX installation, then the third-party software itself will prompt for a restart option.

Configuration

Silex Lite (SX Virtual Link Lite, installed as part of PipetteX) itself provides the user an option to configure gateway devices (refer screenshot below). In addition, if the end user is required to install the Silex Desktop app, we recommend having it on a separate PC (rather than installing it with PipetteX). Configure the Silex gateway. This way you can avoid the PC forcing a restart during the PipetteX installation.

♂ SX Virtual Link Lite Setting ×	🖻 🖨 🗖 DS-51	10 × + ~	,				
Please select the device for automatic connection and cick [Appiy].	$\leftarrow \rightarrow $ O						
☐ Ø METTLER TOLEDO 9.5 10 105 Dropiet OLC	Silex				Langua	ges	Help
	Status		D	evice Sta	tus		
	Network Settings				Device Status	System	i Status
Security Options Rgfresh		USB Device Information					[Refresh]
Αρρίγ	Extended Settings	USB Device	Manufacturer N	lame	USB Speed	Connected PC	Duration (H:M:SEC)
		EasyScan Flex	METTLER TO	LEDO	Full Speed	172.29.125.132	00:45:33
	System Information	SLS1010S Droplet DLC	METTLER TO	LEDO	Full Speed	172.29.125.132	00:45:32
		Printer Information					
		Printer Name	Raw Port No.	Queue Name	IPP destinatio	n URL	

5.1.5 SmartCheck

When connecting SmartCheck to the PC via USB cable or Silex gateway, windows will automatically recognize the required device installed with PipetteX.

i Note

For the first time, you need to wait until the drivers are installed successfully. Then you will get a status notification on the driver installation. Once the drivers are installed successfully, unplug the USB cable, and plug it again for the PipetteX to detect the SmartCheck.

5.1.6 EasyScan USB

When connecting EasyScan to the PC via USB cable or Silex gateway, windows will automatically recognize the required device installed with PipetteX.

i Note

For the first time, you need to wait until the drivers are installed successfully. Then you will get a status notification on the driver installation. Once the drivers are installed successfully, unplug the USB cable, and plug it again for the PipetteX to detect the EasyScan USB.

6 License Activation and Management

6.1 License Management

PipetteX is free for the first 60 days. After 60 days the software user needs to be registered, regardless of whether you are using the free or a paid version. The main screen toolbar shows the activation status of the license:

- The icon 👷 indicates the license is activated and the remaining days before renewal.
- The icon turns 🤶 to warn you that the remaining activation period is less than 60 days.
- The icon turns 👷 when the remaining period is less than 10 days.

After the license expires, the following error message is displayed. After this, data cannot be added or changed.

	PipetteX™							
8	Your current license has not been activated or has expired. Click Activate (or) Skip to activate later. Skip Activate							

6.2 License Types

You can try each license edition to test a distributed setup within your organization. You can use the same license key twice, even on different hardware if needed. This option is meant for reinstallation purposes only. Be aware that with the re-use of a key, the installation on the old hardware will be deactivated on the activation portal, and connectivity to the server - in case of a distributed scenario - will be lost for the instance.

i Note

You can try each license edition for up to 60 days without activating it.

6.2.1 License editions

There are different license editions, each with its features depending on license type and activation status. You can try out the software for 60 days without activating it using a license key. Functionality for the trial period is restricted: you cannot test the system connectivity for model list downloads or certificate downloads.

	Starter	Site	Unlimited	Optional License
Software:				
Model List				
Always up to date		-	-	
Electronic documents*				
Calibration certificates**	М	M I A***	M I A***	
Routine test reports	М	MIA	MIA	
Software setup				
Standalone	•	•	•	
Server		-	-	
Audit Trail				
View audit trail data				
View archive data				•
Hardware:				
Assets	200	1500	>1500	
SmartStands	5	200	>200	

	Starter	Site	Unlimited	Optional License
SmartChecks	5	200	>200	
EasyScan USBs	5	200	>200	
Balances	5	200	>200	
Gateways	0	200	>200	

* M = Manual I A = Automated

** Availability country dependent

*** NFS license shall receive certificate until an asset is registered with a full license (Site/Unlimited)

6.2.2 First time vs. renewal license

Each edition has two types of licenses:

- First time license: required to activate your license subscription (valid for 365 days upon activation).
- **Renewal license:** required for each renewal of your existing license (valid for 365 days upon activation). The days left from the first-time license roll-over to the renewal license (if renewing the same edition).

First Time		Renewal	Renewal			
Part No.	Description	Part No.	Description			
30475911	PipetteX Key-Start	30478258	PipetteX Renewal Key-Start			
30475913	PipetteX Key-Site	30478260	PipetteX Renewal Key-Site			
30475915	PipetteX Key-Unlimited	30478262	PipetteX Renewal Key-Unlimited			
30587187	PipetteX Key-Audit Trail	30587190	PipetteX Key-Audit Trail			

An overview of the different license types you can find below:

6.2.3 Distributed vs. standalone

For the license (re-)activation, there are a few important nuances between a distributed and standalone setup.

(Re-)activation of license

- **Standalone**: activation of the license key is done on the PC that PipetteX is running. The key is connected to the hardware ID of the PC.
- Distributed: activation of the license key is done on the PipetteX Business Server. No activation is needed
 on client level (once the business server component is installed and the client points to the activated
 business server).

i Note

PipetteX license can be activated from any client connected to the Business Server since the Business Server component alone will not have a user interface to activate the license.

Connectivity

- Standalone: none
- **Distributed**: provided when an active internet connection exists for the Business Server. When reinstalling the same license key on a new PC or system, connectivity drops on the old system and is activated on the new system.

6.2.4 Upgrading or downgrading licenses

If you want to upgrade or downgrade your license, you should do it when your current license is about to expire. You can change before the license end date, however, the days left on the old license will not roll over to your new license. Ensure you purchase the first-time license part number of the down or upgrade of your license (not the renewal part number).

The user effect of downgrading or upgrading your license is described below. The activation portal creates a new system registration in combination with your new license. If you do not renew your old license in either case (down- or upgrade), the old license will expire at the end of its effective period and will be deactivated on the activation portal.

Upgrade paths (PipetteX 3.x)

Upgrade path	PipetteX setup before upgrade	Actions required
Start -> Site, Start -> Unlimited	≤200 assets (local only) and/or ≤5 connected SmartStands	 Remove the old license key in license manager Add a new license key in license manager Activate your license Continue using PipetteX
Site -> Unlimited	≤1,500 assets	 Remove the old license key in license manager Add a new license key in license manager Activate your license Continue using PipetteX

Downgrade path	PipetteX setup before downgrade	Actions required
Site -> Start, Unlimited -> Start	≤200 assets and/or ≤5 connected SmartStands	 Remove the old license key in license manager Add a new license key in license manager Activate your license Continue using PipetteX
	>200 assets and/or >5 connected SmartStands	In your new setup you will only be able to manage 200 assets in PipetteX and no more than five connected SmartStands. You will lose the central server aspect and automatic certificate retrieval. Refer to the license edition table [License editions Page 55] to see which functionality you will lose. To continue:
		1 Define which assets you continuously want to manage with PipetteX
		2 Download the data, including any certificates you might have, of all assets that you no longer want to from PipetteX
		3 Delete these assets from PipetteX so you meet the 200 assets threshold
		4 Delete the number of SmartStands to meet the threshold of 5 SmartStands
		5 Uninstall PipetteX but do not remove your database
		6 Activate PipetteX with the start license key
		7 Continue using PipetteX

Downgrade path	PipetteX setup before downgrade	Actions required
Unlimited -> Site	≤1,500 assets and/or ≤200 connected SmartStands	 Remove the old license key in license manager Add a new license key in license manager Activate your license Continue using PipetteX
	 > 1,500 assets and/or > 200 connected SmartStands 	In your new setup you will be able to manage 1,500 assets on PipetteX and no more than 200 connected SmartStands. Refer to the license edition table in section [License editions ▶ Page 55] to see which functionality you will lose. To continue:
		 Define which assets you continuously want to manage with PipetteX
		2 Download the data, including any certificates you might have, of all assets that you no longer want to manage from PipetteX
		3 Delete these assets from PipetteX so you meet the 1,500 assets threshold
	4 Delete the number of SmartStands to meet the 200 SmartStands threshold	
		5 Uninstall PipetteX but do not remove your database
		6 Activate PipetteX with the start license key
		7 Continue using PipetteX

6.2.5 Combining or reassigning licenses

Contact Rainin technical support if you:

- Have purchased several licenses that need to be combined under one activation portal sign-in account.
- Need an existing license to be re-assigned to a new activation portal sign-in.

6.3 How to access the (re)activation process?

For both first-time activation after installing or renewing an existing license, the same (re)activation process is followed. Accessing the license activation process differs slightly between a first-time activation and a renewal. For first-time activation, the license activation process is part of the installation (continue to the section [License activation during first-time installation \triangleright Page 59]).

To access the activation process after a successful installation, click on the 2 icon in the main screen toolbar. The following screen with all of the licensing information is displayed.

	License manager	
		🛟 💼 🕫 🖇
Hardware ID		
Name	License key	Expiry Date
PipetteX Unlimited	e	02-Dec-20 12:00:00 AM
Vours	vetem is activated (DinetteX Unlimited). Ren	naining Dave 168
Tour 3	stem is activated (ripettex ominited). Ken	nanning baysiroo

- Add a new license by clicking on the 🛟 icon.
- Remove an existing license by clicking on the mini icon.
- The license can be activated by clicking on the 🏂 icon, a wizard is displayed to guide you through the license activation process.

i Note

 You can have only one base (Start I Site I Unlimited) license information in the list before you can activate. In addition, you can add the optional license for "Audit Trail" in the license manager screen. Activation of base + optional license combination is also possible from PipetteX.

PipetteX license options		ns 📉 🗙
		Sector 100 (1998)
Edition		
🔵 Start 🔘 Site 🔵 Unlim	ited	
License options		
Assets	SmartStands	SmartChecks
1500	200	200
EasyScan USBs	Balances	Gateways
200	200	200
Network connectivity	Image: A start of the start	
Calibration certificate	\checkmark	
Routine test report	\checkmark	

- View the license information by clicking on the 🐡 icon.
- You change the edition during the demo period or view the licensing details.

6.4 License activation during first-time installation

After installing PipetteX and running it for the first time, you will be prompted to activate the license or to run the application as a demo for a fixed period to evaluate the software.

The following window appears when you start the application for the first time. You can enter the valid license key which you have purchased, activate the license or you can evaluate the software for the next 60 days.

	PipetteX™	×
		→
Enter license key		
○ PipetteX [™] start demo		
○ PipetteX [™] site demo		
○ PipetteX [™] unlimited demo		

6.4.1 Activating a license using automatic method

- You must have an active internet connection to activate your license automatically.
- 1 Select the Automatic (internet connection required) option and click on the \implies icon.
 - The wizard will then move to the next step as follows: You need a customer profile to activate the license.

	PipetteX activation wizard	×
	÷ •	
Blassa asl	act the action method for DinettaV	
Flease sei	ect the action method for Pipettex.	
To continue, you	have to activate all licenses you have for PipetteX. Choose your prefered	
method for activ	ating the licenses.	
Activation type	 Automatic (internet connection required) 	
	O Manual (using activation key and license file)	

2 If you already have a METTLER TOLEDO software licensing portal profile, select the **Use existing user profile** option or select **Create new user profile** option.

PipetteX activation wizard	×
÷ •	-
liser	
Select existing user profile or create new profile	
O Use existing user profile	
Create new user profile	
Select existing user profile or create new profile Use existing user profile Create new user profile	

3 Enter your contact information,

Beware of the following limitations:

- Login name cannot contain spaces, commas, or semicolons.

- **Email**: only one e-mail address is allowed. Special characters are limited to dash and underscore (no space, comma, semicolon or other special characters).

- Industry: select from the drop-down list (please choose an option is not allowed).
- Country: select from the drop-down list (please choose an option is not allowed).
- Password must contain one of the special characters: !\$%()=?*+-

	PipetteX activation wizard	×
		← →
Please provide yo	our contact Information.	
Please complete all required	fields	
Login name *		
Email*		
First name *		1
Last name *		
Job title		

4 Company and address details to be specified

	PipetteX activation wizard	×
		← →
Please provide	your company Information	
The information will be	sent via a secure connection	
Company name *		
Industry *		
Department		
Address		
State / Province		
ZIP / Postal code *		
City *		
Country *		
User phone		
Fax		

5 System information.

i Note

The **System ID**, **PC name**, and **PC location** are for your internal reference purposes so you know where the software has been installed. Any value can be entered.

Please provid	le your system Inf	ormation	
Please fill out the fiel installed PipetteX wit	ds. The information will enable hin your organization at a late	e you to identify the locations where you have r point in time.	ve
System ID *			ľ
PC name			/
PC location			/
Hardware ID			

6 After you enter the above information, you will receive a password by email that you have provided in the **contact information** page.



7 If you have received the password, you may proceed with the **I have received the password by e-mail** option. Otherwise, select the appropriate option.

8 Once you have received the password, copy the password, and click on the => icon to proceed with activation.

	PipetteX activation wizard
Please pro	vide your username and password
lf you have lost y Activation Portal	our username or password, please recover your customer profile at the Software https://activation.mt.com
Login name *	
Password *	
	Please click next to activate PipetteX.

9 Enter the login name and the password in the following screen.



➔ Your license is now activated.

6.4.2 Activating a license using manual method

- You can activate the license when your PC is not connected to the internet.
- 1 Add a new license by clicking on the 😳 icon. You can remove an existing license by clicking on the 📺 icon.

	License manager	×
		🕒 💼 🛷 🎭
Hardware ID	1	
Name	License key	Expiry Date
PipetteX Unlimited (Den	no)	7/7/2018 9:57:45 AM

2 The license can be activated by clicking on the \bigcirc icon from the toolbar.

Pipettex activation	on wizard ×
	← →
Please select the action method f	or PipetteX.
	·
To continue, you have to activate all licenses you have method for activating the licenses.	for PipetteX. Choose your prefered
Activation type O Automatic (internet connection r	equired)
Manual (using activation key and	license file)

3 Select the **Manual (using activation key and license file)** option and click on the \rightarrow icon. This wizard will move to the next step as follows:

PipetteX activation wizard	×
	← →
Please save your license key file.	
Save the file on your local hard drive or another storage media.	
Save license Key File	

- 4 Click on the **Save License Key File** button and save the generated license key file to a known location.
- 5 Click on the => icon to upload the saved license key file to the activation portal.

PipetteX activation wizard ×	
← →	
Please send the license key file.	
Either upload the file to the Software Activation Portal by using the link below or send the file to a Mettler Toledo representative.	
http://activation.mt.com	

- 6 Copy license key file to a computer with internet access.
- 7 Enter https://activation.mt.com into a browser.

8 Sign in with the credentials of your user account on the METTLER TOLEDO software licensing portal by clicking **Sign in** in the top right corner or register a new user account by clicking **Register** in the menu ribbon.



9 After you sign in, refer to **Activation**.

10 Browse to your license key file and upload it.

🖻 🕫 💽 activation.mt.com	X + ~			-	٥	×
\leftrightarrow \supset \bigcirc \bigcirc	activation.mt.com/Pages/Activation.aspx	□ ☆	5≞ [n L	Ŀ	
			[0]			?
METTLER TOLEDO	ACTIVATION PORTAL					
Search this site 👻 🔎	Home Knowledge Base Activation Profile Register					
	Activation / Reactivation In order to activate your product. This texport the license key file using the "License manager" in your product. The license key file contains the hardware ID of your PC (Server installation. On this page, browse for the path to the exported license key file (JiC) and Click on "Submit" to upload. License key file:	r) and all the licer	nse keys o	fyour		
	Simple SW products with one license key only					
	License key:					H
	submit					
	Activated products Non-Activated products					
	The activation key file of the activation system can be downloaded by pressing the icon $\langle \bar{b}_n \rangle$ Please import the activation key file in the License manager of your product installation in order to activate the software. Entering information into the various fields is not ne	cessary, but it pro	ovides an e	overview,		

11 Add a system name. The system name is an internal reference for you, so you know on which system you have activated the license. You can optionally fill out the other fields.

🖻 🖅 💽 activation.mt.com	× + ~
\leftarrow \rightarrow \circlearrowright $\textcircled{0}$	activation.mt.com/Pages/EditSystem.aspx?mtID=56100&sId=B3-C5-A5-FD-B5-E8-5D-D3-B1-11-58-88-9C-48-78-FA&bu=
METTLER TOLEDO	and the second sec
	ACTIVATION PORTAL
Search this site 🔹 🔎	🖆 Home Knowledge Base Activation Profile 🔻 Register
	Edit system
	System name *
	Server name
	Server location

12 Select Save, then Cancel.

🖻 🖅 🐼 activation.mt.com 🛛 🗙 🕂 🗸

13 When successfully activated, download the activation key file (1) and save it to a known location.

Cancel

Save

\leftarrow \rightarrow O \textcircled{a} C	activation.mt.com/Pages/Activation.aspx	□ ☆
	Activation / Reactivation	
	In order to activate your product, first export the license key file using the "License manager" in your product. The license key file contains the hardware ID c installation. On this page, browse for the path to the exported license key file (Jic) and click on "Submit" to upload.	of your PC (Server) and all the licens
	License key file: Browse	
	submit	
	Add license key	
	Simple SW products with one license key only License key:	
	submit	
	Activated products Non-Activated products	
	The activation key file of the activation system can be downloaded by pressing the icon (\vec{k}) Please import the activation key file in the License manager of your product installation in order to activate the software. Entering information into the variou especially with several or larger systems. The system informations can be changed by pressing the icon (\vec{k}) All license information can be viewed or edited with the icon (\vec{P})	s fields is not necessary, but it prov
	Product Subname System name Server name Server location Hardware ID / LRI	
		8 P L

14 Copy the activation key file to the computer with your PipetteX installation.



15 Click the Import Activation Key File button and select the file.

PipetteX activation wizard
\leftarrow
Please import the activation Key File
To complete the registration, please import the activation key file. This file you have either downloaded from the Software Activation Portal or received from a Mettler Toledo representative.
Import activation Key File Vicense Key activated successfully! Please restart all the clients to have the license take effect.

→ Your license is now activated.

6.5 License renewal

The license renewal process is similar to the first-time activation. Ensure you have a **renewal** license key, not a **first-time** license key. Side grade of license edition is possible (Start \rightarrow Site/Unlimited, Site \rightarrow Unlimited) in PipetteX.

6.5.1 License renewal using automatic method

You need to have an active internet connection to renew your license. The following screen will be displayed when the license activation is expired.



1 Add a new license by clicking the 🔁 icon. Remove an existing license by clicking the 📺 icon.

	License manager	
		🔁 💼 🛷 🎗
Hardware ID		
Name	License key	Expiry Date
PipetteX Start		I
2 You can renew the license by clicking on the \bigcirc icon from the toolbar.

	PipetteX activation wizard
Please sel	ect the action method for PipetteX.
To continue, you method for activ	have to activate all licenses you have for PipetteX. Choose your prefered ating the licenses.
Activation type	Automatic (internet connection required)
	O Manual (using activation key and license file)

3 Select the **Automatic (internet connection required)** option and click the \rightarrow icon. The wizard moves to the next step.

PipetteX activation wizard	×
User	
Select existing user profile or create new profile	
Use existing user profile	
○ Create new user profile	

- 4 If you would like to create a new profile, then choose **Create new user profile**. If you already have a profile, choose **Use existing user profile** option and click the **>** icon.
- 5 Enter the login name and the password in the following screen.

	PipetteX activation wizard	×
	←	-
Please pro	ovide your username and password	
· · ·		
lf you have lost y Activation Portal	your username or password, please recover your customer profile at the Softw https://activation.mt.com	vare
Login name *		
Password *		
	Please click next to activate PipetteX.	

6 You can verify or update your contact information, company information, and system information in the following screens.

	PipetteX activation wizard	×
		$\leftarrow \Rightarrow$
Please provid	de your contact Information.	
	-	
Please complete all re	equired fields	
Login name *		1
Email*		A.
First name *		1
Last name *		J.
Job title		. In the second s

The information will be	e sent via a secure connection		
Company name *			4
ndustry *			4
Department			4
Address			4
State / Province			4
ZIP / Postal code *			4
City *			4
Country *			4
Jser phone			
ax			
Company Website			
	PipetteX activation wiz	zard	
Please provide Please fill out the fields. 1 installed PipetteX within	PipetteX activation wiz	zard × on entify the locations where you have time.	
Please provide Please fill out the fields. T installed PipetteX within System ID *	PipetteX activation wiz	zard on entify the locations where you have time.	
Please provide Please fill out the fields. T installed PipetteX within System ID * PC name	PipetteX activation wiz	zard ton entify the locations where you have time.	
Please provide Please fill out the fields. T installed PipetteX within System ID * PC name PC location	PipetteX activation wiz	zard on entify the locations where you have time.	
Please provide Please fill out the fields. T installed PipetteX within System ID * PC name PC location Hardware ID	PipetteX activation wiz	zard on entify the locations where you have time.	
Please provide Please fill out the fields. T installed PipetteX within System ID * PC name PC location Hardware ID	PipetteX activation wiz	ard	

7 After you verify or update your information, click the => icon to activate the license.

	PipetteX activation wizard
	← 📀
Pipette)	Activation Is Successful
Ø	License Key activated successfully! Please restart all the clients to have the license take effect.

→ Your license is now activated.

6.5.2 License renewal using manual method

You can renew the license on a PC that is not connected to the internet. The following screen will be displayed when the license activation is expired.



1 Add a new license by clicking on the 😳 icon. You can remove an existing license by clicking on the 📺 icon.

	License manager	
		🔂 🛅 🕏 🎗
Hardware ID		
Name	License key	Expiry Date
PipetteX Start		
	· · · ·	
	Your system is not activated. Remaining	ng Days:0

2 You can renew the license by clicking on the \bigcirc icon from the toolbar.

	PipetteX activation wizard ×
	$\leftarrow \Rightarrow$
Please sel	ect the action method for PipetteX.
To continue, you method for activ	have to activate all licenses you have for PipetteX. Choose your prefered rating the licenses.
Activation type	O Automatic (internet connection required)
	 Manual (using activation key and license file)

3 Select the **Manual (using activation key and license file)** option and click on the \rightarrow icon. This wizard will move to the next step as follows:

PipetteX activation wizard	×
←	-
Please save your license key file.	
Save the file on your local hard drive or another storage media.	
Save license Key File	

- 4 Click on the Save License Key File button and save the generated license key file.
- 5 Click the icon to upload the saved license key file to the activation portal.

PipetteX activation wizard ×	
← →	,
Please send the license key file.	
· · · · · · · · · · · · · · · · · · ·	_
Either upload the file to the Software Activation Portal by using the link below or send the file to a Mettler Toledo representative.	
htttp://activation.mt.com	

- 6 Copy license key file to a computer with internet access.
- 7 Enter https://activation.mt.com into a browser.

8 Sign in with the credentials of your user account by clicking **Sign in** in the top right corner or register a new user account by clicking **Register** in the menu ribbon.



9 Once you have signed in, refer to **Activation**.

10 Browse to your license key file and upload it.

🔁 🖅 🔯 activation.mt.com	n X + ~			-	٥	×
	activation.mt.com/Pages/Activation.aspx	${\Rightarrow}$	격 [n L	È	•
			[0]			. 1
METTLER TOLEDO	Channel Market Comments					
	ACTIVATION PORTAL					
Search this site • P	🖄 Home Knowledge Base Activation Profile Register					
	Activation / Reactivation					
						_
	In order to activate your product, first export the license key file using the "License manager" in your product. The license key file contains the hardware ID of your PC (Server) and a	II the licen	ise keys o	f your		
	installation. On this page, browse for the path to the exported license key file (Jic) and click on "Submit" to upload.					
	License key file: Browse					
	almit					
	Add license key					
	Simple SW products with one license key only					
	License key:					
	submit					
					_	
	Activated products Non-Activated products					
	The activation key file of the activation system can be downloaded by pressing the icon (6) Please import the activation key file in the License manager of your product installation in order to activate the software. Entering information into the various fields is not necessary.	but it pro	vides an e	overview.		

11 Add a system name. The system name is an internal reference to know which system you have activated the license. You can optionally also fill out the other fields.

🖻 🖨 💽 activation.mt.com	× + ~
\leftarrow \rightarrow \circlearrowright $\textcircled{0}$	activation.mt.com/Pages/EditSystem.aspx?mtlD=56100&sld=B3-C5-A5-FD-B5-E8-5D-D3-B1-11-58-88-9C-48-78-FA&bu=
METTLER TOLEDO	
	ACTIVATION PORTAL
Search this site 🔹 🔎	🖄 Home Knowledge Base Activation Profile 🔻 Register
	Ealt system
	System name *
	Server name
	Server location
	Save Cancel

12 Select Save, then Cancel.

13 After successful activation, download the activation key file (1) and save it.

\leftrightarrow \rightarrow \circlearrowright \Diamond \diamond ctivation.mt.com/Pages/Activation.aspx	□ ☆
Activation / Reactivation	
In order to activate your product, first export the license key file using the "License manager" in your product. The license key file contains the hardware ID of your Poinstallation. On this page, browse for the path to the exported license key file (Jic) and click on "Submit" to upload. License key file: Browse	(Server) and all the licens
submit	
Add license key Simple SW products with one license key only License key:	
submit	
Activated products Non-Activated products	
The activation key file of the activation system can be downloaded by pressing the icon $\langle \vec{k} \rangle$ Please import the activation key file in the License manager of your product installation in order to activate the software. Entering information into the various fields is especially with several or larger systems. The system informations can be changed by pressing the icon (\checkmark) All license information can be viewed or edited with the icon (\checkmark)	not necessary, but it prov
Product Subname System name Server name Server location Hardware ID / LRI	DP 1

14 Copy the activation key file to the computer with your PipetteX installation.



15 Click the Import Activation Key File button and select the file.

PipetteX activation wizard				
\leftarrow				
Places import the activation Kay File				
Flease import the activation Key Flie				
To complete the registration, please import the activation key file. This file you have either downloaded from the Software Activation Portal or received from a Mettler Toledo representative.				
Import activation Key File License Key activated successfully! Please restart all the clients to have the license take effect.				

→ Your license is now activated.

6.6 Errors and solutions

The errors below are primarily related to errors in the license activation process. If you experience errors during setup, know that most errors are SQL related. Your first resource in this case is the Microsoft SQL support site (http://support.microsoft.com/kb/920730/en). If you continue to have issues, reach out to METTLER TOLEDO support. For further error messages information, consult the "Error Messages" section in the PipetteX Reference Manual http://www.mt.com/rainin-sstanddocs.

Error message	Reason	Solution
Activation not possible because the hardware has been changed too many times.	This happens when a license key has been activated on different PCs more than twice.	Buy a new license key and activate it.
Ambiguous system.	This happens when activating a license key that does not comply with PipetteX.	Ensure the license key is entered correctly.
An error occurred on the Activation Portal. Contact your administrator.	An error occurred on the Activation Portal. Contact your administrator.	Contact your METTLER TOLEDO representative.
At least one quantity key is missing.	The entered license key does not match with PipetteX.	Ensure the license key is entered correctly.
Attempted to register backup system but no main system registered.	This happens when the license key is already activated and reactivated on another PC that does not have main system hardware ID in the license activation portal.	Ensure the license key is activated properly in the existing system before changing the hardware.
Demo key submitted.	This happens because a demo license key is used for activation.	Ensure the entered license key is not a demo key.
PipetteX license expired. Please activate now.	To continue using PipetteX you need a valid license.	Please contact METTLER TOLEDO to obtain a valid license key.
Hardware id could not be obtained.	The Business server does not have rights to retrieve the hardware ID from the PC.	Ensure the business server has sufficient access rights.
Invalid activation key.	The license key is invalid.	Contact METTLER TOLEDO.
Invalid license file.	The license file is invalid.	Try to recreate the license file and upload again.
Invalid hardware ID.	The license key has been activated on another PC.	Contact your administrator.
Invalid product code.	A wrong product code has been used.	Contact METTLER TOLEDO.
Invalid System ID.	This happens when trying to reactivate a license key on the same PC, but the hardware does not match.	Please check if the hardware ID is correctly displayed in the License Manager Window of PipetteX.
Invalid Type ID.	License type ID is invalid	Contact METTLER TOLEDO.
Invalid username or password.	This happens when the username or password for the license activation portal is wrong.	Ensure the username and password is entered correctly.
Key does not designate a valid license level.	An invalid license level is used.	Contact METTLER TOLEDO.
Key does not designate a valid license.	An invalid license is used.	Contact METTLER TOLEDO.
Key is for a different product.	You can only activate PipetteX license keys.	Ensure you have the correct key. Otherwise contact METTLER TOLEDO.

Error message	Reason	Solution
Level of at least one option key is too high.	The entered license key does not match with PipetteX.	Ensure the license key is entered correctly.
Level of at least one quantity key is too low.	The entered license key does not match with PipetteX.	Ensure the license key is entered correctly.
License key already used by another profile.	A license key can only be assigned to one user profile.	Contact your administrator or METTLER TOLEDO.
License key could not be validated.	License key could not be validated.	Retry the validation process. If not successful, contact METTLER TOLEDO.
License key was not issued by METTLER TOLEDO.	An invalid license key was used.	Contact METTLER TOLEDO.
Login name already exists.	Login names must be unique.	Use a different login name.
More than one edition license keys has been submitted.	You can only submit one edition of license keys, not several	Choose the license key edition you need and submit that one.
Multiple keys found that share the same product option.	You should only have one license key with the same type of license activated	Remove license keys with the same type of license and only activate one license key.
No edition license key has been submitted.	No edition license key has been submitted.	Submit an edition license key.
Not authorized to register.	This happens when the activation portal user account is not authorized to activate.	Check whether the user account has been created correctly in the activation portal (https:// activation.mt.com).
One or more keys do not have a valid version.	One or more keys do not have a valid version.	Contact METTLER TOLEDO.
Password strength too weak.	Strong passwords are required.	Password length minimum: 7 characters, including minimum 1 character out of this selection of special characters: !\$%()=?*+-
Same license key has been submitted twice.	A license key should only be submitted once.	If the issue persists, contact METTLER TOLEDO.
Software configuration is invalid.	This happens because the license key activation is not matching the PipetteX configuration in the activation portal.	Check if the license key is entered correctly. Otherwise contact METTLER TOLEDO.
Start edition does not allow server connectivity. Please upgrade if needed.	If you want the calibration certificates to be loaded into PipetteX, you need a paid subscription.	Contact METTLER TOLEDO.
The account is already used by another profile.	The username is already used by another account in activation portal.	Ensure the entered username is unique.
The license key is not valid.	The entered license key does not belong to PipetteX.	Ensure the license key is entered correctly.
Unable to connect activation server.	The activation portal could not be contacted.	Ensure the internet connection is active and your firewall allows a connection to activation portal.
User profile does not exist.	No user profile exists on the activation portal.	Read the manual or installation guide on how to setup an activation portal account.

Error message	Reason	Solution
Unable to install SX Virtual Link Lite because the server is currently connected. Restart your computer and try running installation again.	This warning is shown after the software update if the Silex gateways are connected with devices during software upgrade.	This message can be ignored. In future, recommended to disconnect the Silex gateways from PipetteX before initiating a software update.

7 Known Issues

7.1 RFID reader not detected

This occurs, when both LabX Direct Pipette Scan and PipetteX are used simultaneously and LabX Direct Pipette Scan is trying to force close the RFID Reader.

Close the LabX Direct Pipette Scan and unplug the RFID reader, wait for 10 seconds and then plug the RFID reader back into the PC. PipetteX should then be able to communicate with the RFID reader.

This is true of any other applications which may attempt to communicate with the RFID readers.

7.2 EasyScan Flex reader not detected

If you are using the serial COM port on a docking station, PipetteX might not be able to establish a connection. Try to avoid using a docking station or use a USB serial cable instead, which creates a virtual COM on the computer.

7.3 SQL server installation issues

Refer to Microsoft support for various SQL installation issues and their resolutions.

7.4 Font style for non-English manual

The font style **Arial Unicode MS** is used for displaying all of the characters present in the certificate. If Arial Unicode MS font style is not installed, then **#MS San Serif** will be used to display the characters in the certificate.

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