

Software Applications

KELTON MeterManager™ Server Installation Manual

Abstract

This document is the Installation guide for KELTON Fiscal Metering Management Package (KELTON MeterManager)



Contents

Abstra	act	.1
1.0	Revision Control	.3
2.0	Introduction	.3
3.0	KELTON MeterManager Server Installation	.4
4.0	Multiple KELTON MeterManager Services on the Same KELTON MeterManager Server Computer	.8
5.0	Automatically Starting KELTON MeterManager Servers (Local Installations Only)	10
6.0	Running Scripts on KELTON MeterManager Databases Error! Bookmark not define	d.



1.0 Revision Control

Rev	Issue date	Description	Prep.	App.
1	May 2013	Issued	IB	MH
1.1	Aug 2016	Updated to reflect SQL 2008 obsolescence	MH	MH
1.2	Sept 2016	Reformatted	INB	JON
1.3	Nov 2017	Reformatted	KW	JON
1.4	Jul 2018	Updated branding applied	WM	JS
1.5	Sep 2020	Updated 1.8.1	WM	JM
1.6	April 2021	Updated 1.8.2	RJS	JM
1.7	May 2023	Updated for 2.1.0	AN	DL

2.0 Introduction

Scope

This document outlines the steps required to install the following KELTON Software Application: KELTON MeterManager Server V1.8.5 (or higher).

Hardware Specification

The minimum recommended specification a personal computer (PC) for installing KELTON Meter Manager Software Applications is:

- Processor: Core i3 (or higher)
- Memory RAM: 4 GB
- Hard Drive space: 50 GB

Software Specification

The following operating systems are supported:

- Windows 10 x86 (32-Bit) & x64 (64-Bit).
- Windows 11 x86 (32-Bit) & x64 (64-Bit).
- Windows Server 2016 or higher.

Database

KELTON MeterManager uses a SQL database that can be installed on SQL Server 2019 or higher.

If a database is being locally installed Microsoft[®] SQL Server[®] Express can be used. The latest version can be downloaded free of charge from the Microsoft website.

Prerequisites

All prerequisites required for installing the software are included on the installation disk and will be installed where required.

If you are using OPC which is not installed on the same server, you may need to install OPCEnum. This is a requirement for OPC server detection and not a Kelton MeterManager requirement. Refer to the "KMM OPC Guide" for more information.



3.0 KELTON MeterManager Server Installation

Previous Versions

If a version of KELTON MeterManager Server is already installed this must be uninstalled prior to installing the new version.

Run Setup

Run the .exe file. As below.

Name	Date modified	Туре	Size
B MeterManager_Server_Wix_Bootstrapper	03/09/2020 14:20	Application	11 718 KB
			Open
			🗣 Run as administrator
			S Share with Skype
			Troubleshoot compatibility
			Pin to Start
			Move to OneDrive
			7-Zip
			CRC SHA
			Edit with Notepad++
			🖻 Share

Select Location for Application

After accepting the licence agreement, an opportunity to change the location where the software is to be installed will be provided. KELTON recommends accepting the default location.

Kelton MeterManager 2.1.0.0 Setup	_		\times
Destination Folder Click Next to install to the default folder or click Browse to choose	another.		
Install Kelton MeterManager 2.1.0.0 to:			
C:\Program Files\Kelton Engineering Ltd\Kelton FM2P.net Server\ Change			
< Back Ne	ext >	Cano	el



Select Database Options

Click the icons in the tree below to change th	e way features will be installed.
Install and connect to an existing database	The first option is for when you want to install Kelton MeterManager server and connect to an existing database
Install and connect to a database manually	The second option is for installing Kelton MeterManager server and then configuring the database connections and windows service manually

There are two options available for the installation:

Install and Connect to an Existing Database

If a database is already installed on a server, select this option and a new database will not be created. This is the option to use if KELTON has supplied a configured database previously.

Install and Connect to Database(s) Manually

This option will not step through the process of connecting to the database.

Server Details

Server Hostname or IP address	localhost
Server Port	8088
SSL (offline) Port	8443

The selected computer on which the KELTON MeterManager Server software is installed can be Physical or Virtual but does not require a 'Server' Operating System.

KELTON MeterManager HOSTNAMES/IP

The KELTON MeterManager Hostname/IP entry should be unchanged.



KELTON MeterManager Server Port

The KELTON MeterManager Server Port can be changed if required, but generally the default would be used unless it conflicts with a port which is already assigned.

Choose Database Server

New Database

Browse to the selected database server to create the new database and enter the name for the database to be created.

Existing/Configured Database

If in Section 3 it was decided to connect to an existing database, this screen will enable the selection of the database to connect to.

Enter authentication information			
Enter addiendeadon informadon			
Database server name:	(local)\SQLEXPRES	S	
Connecting to the server:			
Using Windows Authentication	1		
O Using SQL Server Authenticat	ion		
Username:			
Password:			
Database Name:	TestDB		

Install

The KELTON MeterManager Server application is ready to be installed.

Ready to install Kelton Meter	1anager 2.1.0.0
Click Install to begin the installation. installation settings. Click Cancel to e	Click Back to review or change any of your exit the wizard.
	< Back Install Cancel



Confirmation of a Successful Installation

The window below is displayed when the installation has successfully been completed.



This is confirmed by the creation of a Windows Service 'KELTON MeterManager Service', which is started automatically on the selected machine.

The Windows Service is covered in the following sections.

Confirm Service Status

Once this window is displayed, open the Services Management Console and check that the 'KELTON MeterManager Service' has started.

Note: The KELTON MeterManager needs to be run as an account which has read/write access to the database.





Complete the Installation of your KELTON MeterManager System

To complete the installation of your KELTON MeterManager System, please refer to the KELTON MeterManager Client Installation Manual.

4.0 Multiple KELTON MeterManager Services on the Same KELTON

MeterManager Server Computer

General

Multiple instances of KELTON MeterManager Server can be hosted on the same KELTON MeterManager Server computer, each to point to different databases, as shown below.

Copy the Server Installation Folder

Copy the folder KELTON MeterManager Server. This can be renamed as desired to identify the name of the specific site / database.

📙 🛃 📑 🖛 Kelton Engineering Ltd						- 0	×
File Home Share View							~ 🕐
← → × ↑ 📑 > This PC > Local Disk (C:) > Program Files (x86) > Kelton Engineering Ltd v 🖏					Search Kelton Engineering Ltd	P	
	^	Name	Date modified	Туре	Size		
Quick access		Kelton Flocalc.net	19/07/2018 13:29	File folder			
Desktop		Kelton FM2P.net Server	23/07/2018 11:09	File folder			
Documents		Kelton FM2P.net Server (2)	23/07/2018 11:24	File folder			
🕹 Downloads	*	Kelton UNCERTAINTYPLUS.net	19/07/2018 13:30	File folder			
Pictures	*						
58	*						
Hosted Systems - Copy							
Kelton FM2P.net Server							

Edit the 'Server1' Configuration File

In the new (copied) folder edit the file Server1.config

Two edits are required

- Change the port number
- Change the database connection string





The Port Number requires to be altered; as does the SQL Server and Database entries to which connection is to be made; as indicated above.

NOTES:

- Opening Notepad with the *Run as administrator* switch as this will allow the edits to be made and saved in-situ.
- Alternatively, first copy this file to a different location to make the edit and copy the file back into place.

Create a New KELTON MeterManager Server Service

This requires the following command to be run from a command prompt with *Elevated Privileges* using the *Run As administrator* option as described below:

- Start -> All Programs -> Accessories.
- Right-click the *Command Prompt* entry.
- Select the *Run As Administrator* option.
- Then enter the details as shown below.

sc create <InstanceName> binpath= <ServiceName> displayname= <DisplayName>

For example:

sc create MeterManagerserver2 binpath= "C:\Program Files\Kelton Engineering Ltd\Kelton FM2P.net Server(2)\WindowsWcfServiceHost.exe" displayname= "Kelton MeterManager.net Facility 2"

Where: <InstanceName> This is a unique identifier for each service

<ServiceName>.

This is the path to the *WindowsWcfServiceHost.exe* file in the relevant copy of the installation folders which is in this case as detailed below:

C:\Program Files\Kelton Engineering Ltd\Kelton FM2P.net Server(2)\WindowsWcfServiceHost.exe

<DisplayName>.

This is a meaningful name for the service after it is created. In this case the value "Kelton MeterManager Facility 2" is used.

Confirm the New Service is Installed

Confirm the service is installed by opening the services section under 'Computer Management'. It is also possible to start the service and choose the start-up type.

Uninstalling Services

Services can be uninstalled using the 'sc delete' command if required.



5.0 Automatically Starting KELTON MeterManager Servers (Local Installations Only)

General

In cases where the KELTON MeterManager server, KELTON MeterManager Client and KELTON MeterManager database are installed to run locally on the same PC, the following procedure can be followed to automatically start the KELTON MeterManager server when the computer is started.

Services						08
File Action View	Help					
	😹 🛛 📷 🕨 🗰 🖬 🕪					
Services (Local)	Services (Local)					
	SQL Server (FM2P)	Name	Description	Status	Startup Type	Log On As
		Security Center	The WSCSV	Started	Automatic (D.,	Local Service
	Stop the service	Server	Supports fil	Started	Automatic	Local Syste
	Pause the service	Shell Hardware Detection	Provides no	Started	Automatic	Local Syste
	The service	ShrewSoft DNS Proxy Daemon		Started	Automatic	Local Syste
	2	ShrewSoft IKE Daemon		Started	Automatic	Local Syste
	Description:	ShrewSoft IPSEC Daemon		Started	Automatic	Local Syste
	controlled access of data, and rapid	🔍 Skype Updater	Enables the		Automatic	Local Syste
	transaction processing.	Smart Card	Manages ac	Started	Automatic	Local Service
		Smart Card Removal Policy	Allows the s		Manual	Local Syste
		SNMP Trap	Receives tra		Manual	Local Service
		Software Protection	Enables the		Automatic (D	Network S
		SPP Notification Service	Provides So		Manual	Local Service
		SQL Active Directory Helper Servi	Enables inte		Disabled	Network S
		SQL Server (FM2P)	Provides sto	Started	Automatic	Local Syste
		SQL Server Agent (FM2P)	Executes jo		Disabled	Network S
		SQL Server Browser	Provides SQ	Started	Automatic	Local Service
		SQL Server VSS Writer	Provides th	Started	Automatic	Local Syste
		SSDP Discovery	Discovers n	Started	Manual	Local Service
	Extended Standard					

Locate the KELTON MeterManager SQL Database Service

Review properties to determine the service name.

SQL Server (FM2P) F	Properties (Local Computer)						
General Log On	Recovery Dependencies						
Service name:	MSSQL \$ FM2P						
Display name:	SQL Server (FM2P)						
Description:	Provides storage, processing and controlled access of data, and rapid transaction processing.						
Path to executable "C:\Program Files"	e: Microsoft SQL Server\MSSQL10_50.FM2P\MSSQL\Binr						
Startup type:	Automatic						
Help me configure	service startup options.						
Service status:	Started						
Start	Stop Pause Resume						
You can specify th from here.	You can specify the start parameters that apply when you start the service from here.						
Start parameters:							
	OK Cancel Apply						



Locate the KELTON MeterManager Service

🍓 Services		- 🗆 ×	:	
File Action View Help				
	▶ ■ 11 1▶			
🔄 Services (Local)				
KELTON MeterManager	Name	Description	^	
Stop the service Restart the service Description: KELTON MeterManager Service	Intel(R) HD Graphics Control Panel Service Intel(R) PROSet/Wireless Event Log Intel(R) PROSet/Wireless Registry Service Intel(R) PROSet/Wireless Zero Configuration Serv Internet Connection Sharing (ICS) IP Helper IP Tenslation Configuration Service IP Instalation Configuration Service IP Instalation Configuration Service	Service for Intel(R) HD Graphics Control Panel Manages the event trace messages for all the Int Provides registry access to all Intel® PROSet/Wir Manages the zero configuration service for all th Provides network address translation, addressing Provides tunnel connectivity using IPv6 transition Configures and enables translation from v4 to v6 Internet Protocol security (IPsec) supports netwo		
	KELTON MeterManager	KELTON MeterManager Service Coordinates transactions between the Distributed Tr		
	Canguage Experience Service	Provides infrastructure support for deploying and co Creates a Network Map, consisting of PC and device	-	

KELTON MeterManager Properties (Local Computer)				
General	Log On	Recovery Dependent	cies	
Service	name:	FM2P Service		
Display name:		KELTON MeterManager		
Description:		KELTON MeterManager Service		
Path to executable: "C:\Program Files (x86)\Kelton Engineering Ltd\Kelton FM2P.net Server\Wi				
Startup	type:	Automatic		\sim
Service	status : tart	Running	Pause F	lesume
You can specify the start parameters that apply when you start the service from here.				
Start pa	rameters:			
		ОК	Cancel	Apply

Modify the KELTON Service

Modify the Kelton MeterManager service so that it is dependent on the KELTON MeterManager SQL database service:

Run a command prompt with *Elevated Privileges* as detailed in Section 3

Type the following command: sc config <MeterManager Server Service name> Depend= <MeterManager SQL database service>

In this example it would be: sc config "FM2P Service" Depend= MSSQL\$FM2P (Quotation marks are required if the server name contains spaces)

-



Check the KELTON MeterManager Service Properties

