()

File Edit View Tools Help

Add Roles and Features Wizard

Server Roles

Features

Select installation type

Select destination server

Before You Begin

Features

Control Panel Home

## Installing FuelsManager v12.x at a Base Site

Use the following procedure to install FuelsManager v12.x at a base Site. If you are installing FuelsManager at the Enterprise, refer to the Installing FuelsManager v12.x at the Enterprise. Prerequisites: If you are installing Inventory Management (IM)/SCADA, you must set up Cassandra, Java, and SQL, which are used for database management.



#### 1 **Enable Roles and Features**

Roles and Features should be enabled according to the operating system. Refer to the Standard Configurations spreadsheet. To reach the Roles and Features configuration, follow these steps:

- Open Control Panel > Programs > Programs and Features.
- 2) Select Turn Windows features on or off. This launches the Server Manager.
- 3) In the *Before you begin* window, click **Next**.
- 4) When prompted to Select installation type, ensure that Role-based or feature-based installation is selected.
- 5) Click Next. This highlights Server Selection. Ensure that Select a server from the server **pool** is selected.

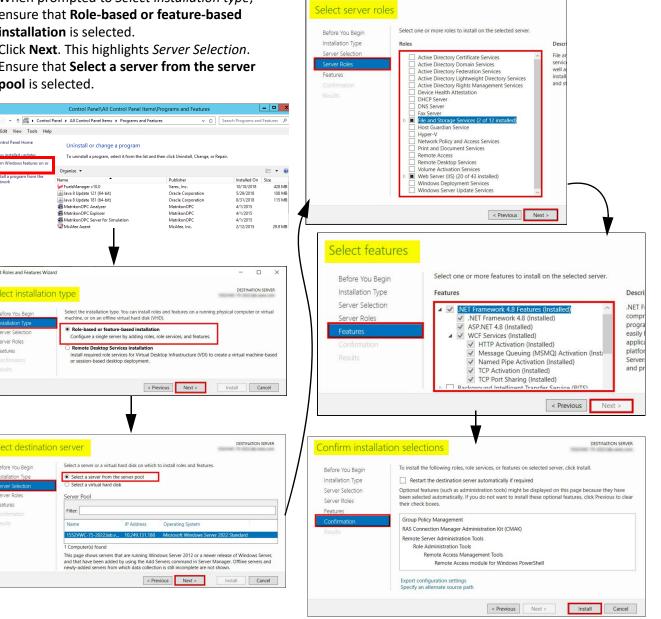
6) Click Next. This highlights Server Roles. Select the required roles.

See Appendix A: Prerequisite Roles and Features for more information.

7) Click **Next**. This highlights *Features*. Select the required features.

See Appendix A: Prerequisite Roles and Features for more information.

- 8) Click Next. This highlights Confirmation and prompts you to confirm your selections.
- 9) Click Install.



Installing FuelsManager v12.x at a Base Site

Server Pool

Filter:

23-LEIDOS-0710-26584

Modified Date: 7/11/23

## **2** Install and Configure Java and Cassandra

See the Cassandra Quick Reference Guide for more information.

#### Set Up SQL

3

SQL Server 2017 is used for this example. For more information on setting up SQL, refer to Microsoft's <u>website</u>.

- Locate the folder where the SQL Server Installation files are stored, right-click SETUP.EXE, and select Run as Administrator to set up SQL. The SQL Server Installation Center window displays. The location varies depending on where SQL is stored. The SQL version may also vary.
- 2) In the left panel, select Installation.
- In the right panel, select the New SQL Server stand-alone installation or add features to an existing installation link.
- When prompted for the Product Key, update the key as needed or accept the default and click Next.

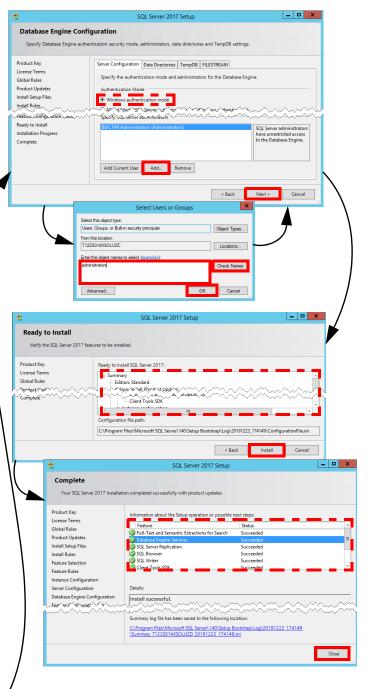
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Product Key License Terms Global Rules Product Updates Install Setup Files Install Rules	Validate this instance of SQL Server 2017 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server Eleveloper, Evaluation, or Sperses. Foluation has the largest set of SQL Server features, as documented in SQL Serve Books Online, and is activated with a 180-day expiration. Developer edition does not have an expiration, has the same set of feature faund in Evaluation, but is licensed for non-production database application development only. To upgrade from one installed edition to another, run the Edition Upgrade Wizard.
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- 5) On the License Terms screen, check the box next to I accept the license terms, and then click Next. The Install Setup Files window shows the progress bar of the install setup, which will take a few minutes.
- On the Microsoft Update screen, check the Use Microsoft Update to check for updates (recommended) box, and then click Next.
- 7) On the Feature Selection screen, select the features to install, and then click **Next**.

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- On the Instance Configuration screen, select Default Instance or update as needed. This should auto-populate the Instance ID. Click Next to continue.
- 9) On the Server Configuration screen, accept the defaults and click **Next**.
- On the Database Engine Configuration screen, accept the default: Windows authentication mode, and then click Add to add an administrator. The Select Users or Groups dialog displays.
- 11) Enter administrators in the text box, and click Check Names. This shows the group path in the text box. Click OK to confirm and close the dialog box. The administrator should now be listed in the Database Engine Configuration screen. Click Next.
- 12) On the Ready to Install window, click Install.
- 13) The Installation Progress screen shows the progress bar of the install process, which will take a few minutes.
- 14) The Complete screen displays the Status of the installation, which should show *Succeeded* for each feature. Click **Close**.

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## Install FuelsManager

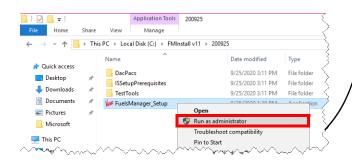
Users running the FuelsManager installer must have permissions on the SQL database in order to configure the system as *Windows Authentication*. If FuelsManager is installed with *SQL Authentication*, the SQL User and password will be included in the web.config file in plain text.

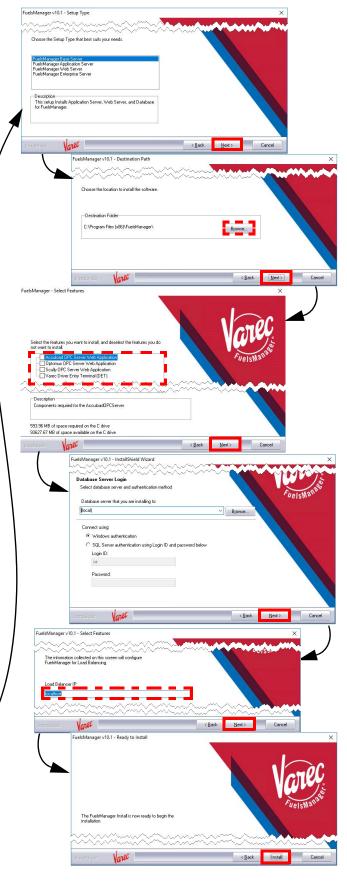
 Open the folder where the FuelsManager installer is located, right-click FuelsManager\_-Setup.exe, and select Run as Administrator to start the install.

If any prerequisite files are found missing, the installer will prompt you to install them. Click Install.

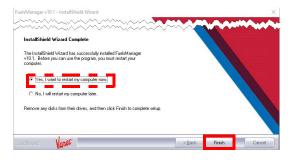
- On the Setup Type window, accept the default selection: FuelsManager Base Server and click Next.
- On the Destination Path window, accept the default Destination Folder or click **Browse** and select an alternate path for installation, and then click **Next**.
- 4) On the Select Features window, select the Terminal Automation Services (TAS) features you want to install and click Next. Otherwise, if you are not installing TAS, accept the defaults and click Next.
- 5) On the Database Server Login screen, accept the defaults and click **Next**.
- When prompted for the Load Balancer IP, accept the default: localhost or if using a load balancer, enter the IP address, and then click Next.
- On the Ready to Install window, click Install. The Setup Status screen shows the progress bar of the install process, which will take a few minutes.

If the FuelsManagerDB already exists, you will be asked whether to apply the dacpac or not. In most cases, you will select **Yes** for this option.





 On the InstallShield Wizard Complete screen, accept the default: Yes, I want to restart my computer now, or you can choose to restart the system yourself, and then click Finish. A restart is required in order to successfully complete the installation process. Your computer reboots to finalize the installation.



## 5 Activate FuelsManager Software License

Complete a Software Request and send to Varec Help Desk so they can create the license (.lin) file.

 Copy the .lin file in the directory specified by the value in the LicFileLocation registry entry in HKEY\_LOCAL\_MACHINE\SOFT-

WARE\Wow6432Node\Varec\SharedComponents.

By default, the LicFileLocation is set to: C:\Program Files (x86)\FuelsManager\License File

Make sure only one .lin file is in this directory. The system looks for and only uses the first .lin file it finds.

- Open the folder where the license activation application is located, and double-click ActivateLicenseLIN.exe to activate the software license.
- Verify that the Company and Address fields reflect the company name and address of the end user the license was created for.
- Verify that the License Status shows Not Activated.

Skip to step 5 if the status shows Activated.

5) Click License Details to verify that the license has the correct settings for the specified end user. Enabled options are shown in black font while options that are <u>not</u> enabled are shown in gray font (grayed out).

You may have to secure another .lin file if the license details do not show the correct settings.

6) Click **Close** to close the License Details window.

If needed, you can install reports using the Reports Installer. See step 5 of the *Installing FuelsManager v12.x at the Enterprise* document for more information.

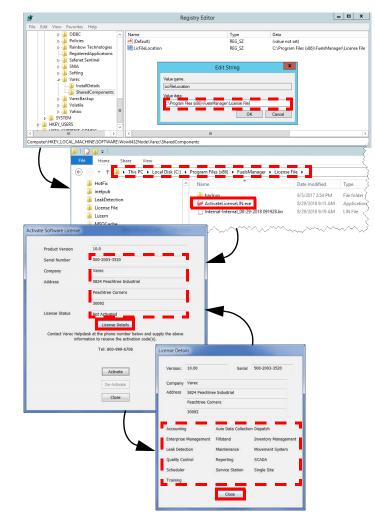
If Reporting Services is configured to connect with a user other than a Built In user, the reports installer will only work properly when run by the configured user.

When running the FuelsManager or Dacpac installers using Windows Authentication, the user logged on to the server must have permissions on the SQL Databases. When creating the FuelsManagerDB for the first time, this user needs db\_owner permissions on 'master'.

Currently, the installer will set the sessionState mode to InProc. This is appropriate for TAS installations. However, for IM/SCADA only installations, it may be appropriate to update the following statement in C:\Program Files (x86)\FuelsManager\FuelsManager\Web.config:

• Change the parameter from

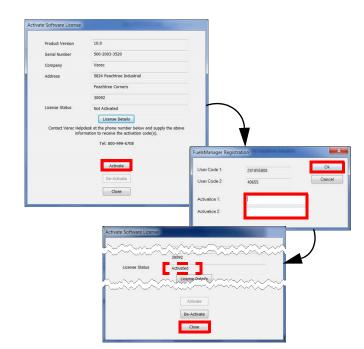
<sessionState mode="InProc" cookieless="true" timeout="20" /> to <sessionState mode="StateServer" cookieless="true" timeout="20" /> This update will prevent active FuelsManager sessions from timing out when the application pool is recycled.



- On the Activate Software License window, click Activate. The FuelsManager Registration dialog displays.
- Call the Varec Help Desk at 1-800-999-6708. Be ready to provide the Serial Number, User Code 1 and User Code 2. Help Desk will then provide the activation code(s).
- Enter the activation code(s) provided by Help Desk in the appropriate fields: Activation 1 and/or Activation 2.
   Typically, this is just one value.
- 10) Click **OK** to activate the license and close the dialog.

The License Status should show Activated.

11) Click **OK** to close the Activate Software License window.



## **6** Update WebConfig File

8 Install OPC UA Server

Wizard, click Next.

- Open the web.config file in C:\Program Files(x86)\FuelsManager\ FMBusinessServices.
- Update the binding name setting <binding name="WsHttpsBindingForSync" to:

<transport clientCredentialType="Windows"/>

Install Varec OPC UA Server to integrate FuelsManager with the RTU.

1) Open the folder where the OPC UA installer is

Setup.exe, and select Run as Administrator.

located, right-click Varec OPC UA Server

2) On the Varec OPC UA Server InstallShield

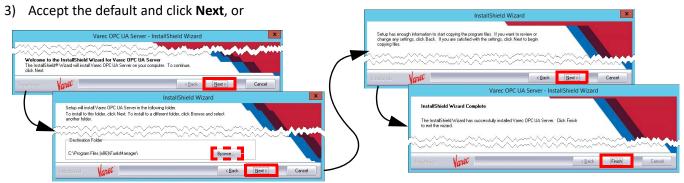
## 7 Update LoadRackService.exe.Config File

- 1) Open the LoadRackService.exe.config file in C:\Program Files (x86)\FuelsManager\FMServices.
- 2) Locate the **appSettings** section.
- 3) Update the **LoadRackSiteID** value from Site 001 to the Site ID.
- 4) <add key="LoadRackSiteID" value="Site 001" />
- 5) You may also modify the LoadRackUserName and LoadRackPassword values, if necessary. <add key="LoadRackUserName" value="administrator" /> <add key="LoadRackPassword" value="\*\*\*\*\*\*" />

You need to restart the FuelsManager Terminal Automation service to finalize your changes to the config file.

click Browse to install in a different Destination folder.

- When prompted if you are satisfied with the Settings, click Next. The Setup Status screen displays a progress bar.
- 5) On the InstallShield Wizard Complete screen, click **Finish**.



Installing FuelsManager v12.x at a Base Site

23-LEIDOS-0710-26584

Modified Date: 7/11/23

## **9** Set Up the Configuration Settings

To access the Configuration Settings, follow these steps:

- 1) Open FuelsManager.
- From the menu, select Administration > System Settings.
- 3) On the System Settings Configuration page, click **Configuration Settings**.

#### **OPC Menu Configuration Settings**

Verify that the iDiscoveryAssemblies setting includes OPCWebApp.dll.

The OPC menu items will not appear in the FuelsManager Configuration menu if this is missing.



### **Enterprise Setting and Sync Node**

Verify that the following settings are set:

- IsEnterprise set to **1** appropriately by the installer, according to the license key in place. *Enterprise Activation* enabled will cause the *IsEnterprise* setting to be set at 1.
- InstallDetailsSynchronizationNodeName must be configured with the DNS name for the URL of the Network Load Balancer.

#### Help File Configuration Settings

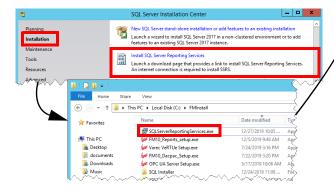
Verify that the DefaultHelpURL is set to the host name or host IP. This allows the end user to access the online help. Example: http://10.33.33.100/FMHelp/

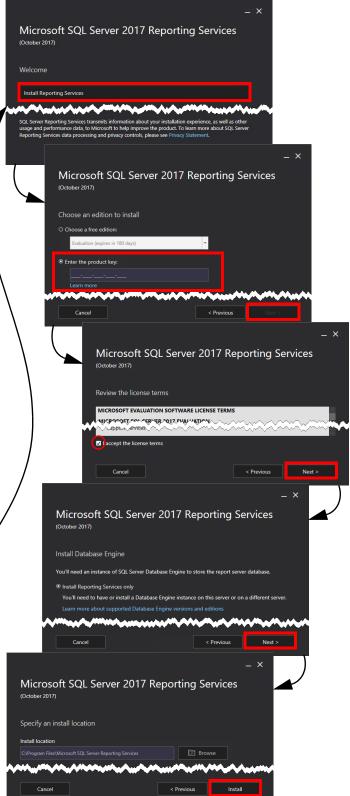
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Report Sen	ver URL:	http://localhost/ReportServer		×		
Report Sen	ver User Name:			_		
Report Pas	sword:			-		
Station Mes	ssage Timeout:	2 seconds				
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## Install SQL Reporting Services

If you will be creating default report assignments when you configure FuelsManager, ensure that the database server selected in this procedure is the same database server hosting FuelsManager. Refer to the *Creating Default Report Assignments* Quick Reference Guide (QRG) for more information. Also, you may refer to Microsoft's <u>website</u> for additional information.

- 1) Access the SQL Server Installation Center.
- 2) In the left panel, select Installation.
- In the right panel, select the Install SQL Server Reporting Services link. This opens a Microsoft web page to download the .exe file.
- 4) Download the .exe file.
- 5) Open the folder where you downloaded the file.
- 6) Right-click SQLServerReportingServices.exe, and select Run as Administrator.
- On the Welcome screen, select Install Reporting Services.
- 8) On the *Choose an edition to install* screen, enter the **product key**, and then click **Next**.
- 9) Review the license terms and select I accept the license terms. Click Next.
- 10) Accept the defaults on the Install Database Engine screen, and then click **Next**.
- 11) Specify an install location or accept the defaults, and then click **Install**. The installer will load the packages and show the progress bar of the install process, which will take a few minutes.





- 12) On the Setup completed screen, accept the default and select **Configure report server**.
- 13) On the Report Server Connection dialog, accept the defaults and click **Connect**. This opens the Report Server Configuration Manager window, which shows the Report Server Status.
- 14) In the left panel, select **Service Account**, and then enter the service account credentials in the right panel.
- 15) In the left panel, select Web Service URL, and then enter the IP Address, TCP Port, HTTPS Certificate, and HTTPS Port for the Report Server Web Service.

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/e'll start Report Server Co earn more	Configuration Manager for you to configure your report server.
****	
	Configure report server Close
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2 Connect	Service Account
FM10-APP-1/SSRS	Specify a built-in account or Windows domain user account to run the report service.
3 Service Account	
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Service Account	Virtual Directory: ReportServer
R Service Account	
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R Service Account	IP Addressi         10.249,128,80           TCP Ports         90
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Service Account  Web Service URL  Database  Web Portal URL  Enval Settings	P Address:         30.349,128.80           TCP Forb:         80           HTTPS Cestificate:         lutern varec.com

Installing FuelsManager v12.x at a Base Site

- 16) In the left panel, select **Database**, and then click **Change Database**.
- 17) On the Change Database dialog, you can choose to Create a new report server database or Choose an existing report server database. Click Next.
- 18) In the left panel, select **Web Portal URL** and ensure that the Reports URL is correct.
- 19) You may go through the rest of the options in the left panel and update them or accept the defaults for each one.
- 20) Click Apply to save your changes.

PHID-MP-15585       IV-bit Service UR:	Current Report Server D Click: Change database SQL Server Name: Database Name: Report Server Mode:	server stores all report server conte report server database or update da stabase e to select a different database or cr SQLCAS ReportSer- Native	este a new database. V10 er er connect to the report server data at  ation Wicard	Change Da	
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All the Server UK.	Click Change database SQL Server Name: Database Name: Report Server Mode: Current Report Server D The following credenti different account or up Credential: Login:	eto select a different detabase or or sQLCLSFM ReportSim Native Visibase Credential List are used by the report enver to otate a password. SQL Accord Report Simer Disbase Configure Change Database	v 19 er connect to the report servior data It attion Wicard		
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•	min	Action			
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2		Database Credentials			
		Summary	Select a task from the following		
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Report Server Configuration I	Manager				
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Service Account	Configure a the URL.	uRL to access Web Portal. Click Ad	vanced to define multiple URLs, o	or to specify additional paramete	rs on
A Web Service URL	Web Portal Site Identific				
1 Database	Virtual Directory:	Reports			
S Web Portal URL	URLs:	https://i0.249.128.80:80/Rep https://uzen.x	249.128.80/80/Reports	Advanced	-
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## **1** Install and Configure Reports

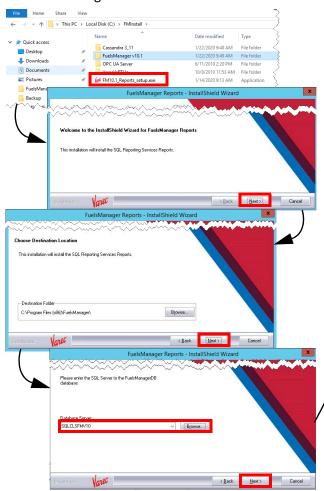
Installation of the reports cannot proceed without knowledge of the location of the RS.exe file. See the *Helpful Tips* section at the end of this document for more information.

#### Run the Reports Installer

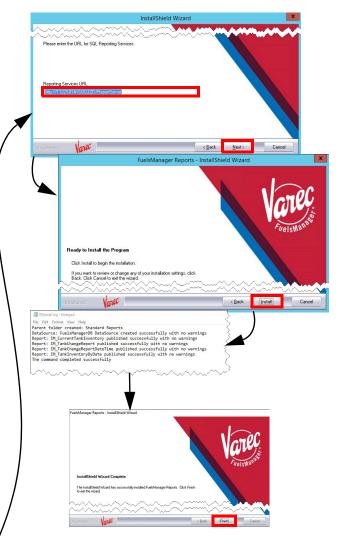
 Ensure that SQL Reporting Services has been installed and configured prior to performing the next steps.

If Reporting Services is configured to connect with a user other than a Built In user, the reports installer will only work properly when run by the configured user.

- Open the folder where the FuelsManager Reports installer is located, right-click
   FM[ver]\_Reports\_Setup.exe, and select Run as Administrator.
- 3) On the Welcome page, click Next.
- Browse to select a Destination Folder, or leave this as the default. Click Next.
- 5) Browse or enter the SQL server to the FuelsManager DB. Click **Next**.



- 6) Provide the **Reporting Services URL**, and then click **Next**.
- 7) On the Ready to Install the Program window, click **Install**.
- The Setup Status shows the progress bar, which will take a few minutes.
- 9) The Reporting Services install log displays. Click **X** in the upper-right corner to close the log file.
- 10) On the InstallShield Wizard Complete screen, click **Finish**.



### Configure the Report Server URL

- 1) Launch FuelsManager.
- From the menu, select Administration > System > System Settings.
- 3) On the System Settings Configuration page, ensure the **Report Server URL** is configured.
- 4) Click Apply to save changes, if any.

#### Configure the Report Directory

- From the menu, select Configuration > Reports/Queries > Report Assignment.
- Select the Directories tab. Ensure that the Report Directory is configured.
  - By default, the directory should be /Standard Reports.
- 3) Click **OK** to save changes.

System Settings Configuration	Report Assignment Configuration
Report Server URL:         http://localhost/ReportServer           Report Server User Name:	Reports Directories
Report Password:	Report Directory: /Standard Reports
Single Sign On Mode	ОК Сапсе
Note: Certain devices may have timeout limits below these settings.	
Configuration Settings Apply	

#### **Add Report Groups**

Perform the Add Report Groups and Assign Reports to Report Groups (below) procedures within each site, once those are created.

- Select the **Reports** tab to add one or more Report Groups.
- 2) Click **Add/Modify Groups**. The Report Group Configuration page displays.
- 3) Click **Add** to add a Report Group.
- Enter the name of the Group, and then click the green check icon to save changes.
   Repeat steps c and d to add more Report groups.
   You may also click the arrow icon under the Order column to change the order of how your report groups display.
- 5) Click **Close** to close the Report Group Configuration page.

Report Assignment Configuration

 Reports
 Directories

 Add Report
 Add/Modify Groups

 Edit
 Delete
 Report Group

 Add Report
 Add/Modify Groups

 Add Report
 Add/Modify Groups

 Add Report
 Add/Modify Groups

 Image: Configuration
 Image: Configuration

 Image: Configuration
 Image: Configuration

#### Assign Reports to Report Groups

Perform the Add Report Groups (above) and Assign Reports to Report Groups procedures within each site, once those are created.

- 1) Select the **Reports** tab.
- 2) Click Add Report. The Report Detail Configuration page displays.
- 3) Enter a Report Name.

Report Assignment Configuration

Directories

Add Report Add/Modify Groups

- 4) Select the report from the Report Path down list.
- 5) Enter the Report Description.
- 6) Expand the Assigned Group drop down then select the **Report Group** in which want to assign the selected report.

- 7) Assign the User Groups that may be able to view the report.
- 8) Click **OK** to save your changes.

	Report Detail Configuration				
drop	Report Name * Report Path * Report Description	Inventory Reconciliation	ÿ		
list, and you	Assigned Group  Report For Print Only Print At End Of Day Print At End Of Month Primary Printer Name Secondary Printer Name	Accounting Reports           Fax: (redirected 3)         [None)	v v		
Order			Unassigned User Groups:		

## 12 Set Up Internet Explorer (optional)

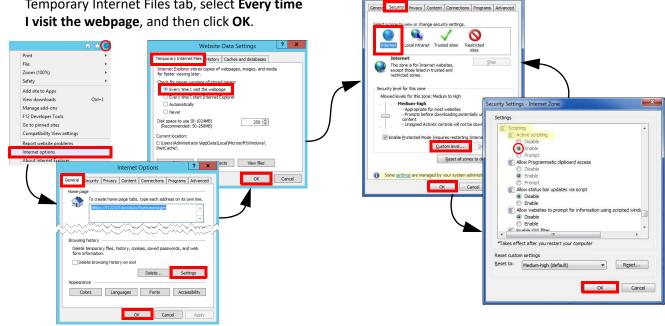
Add/Modify Groups Show 10 V

#### Chrome and Edge browsers are preferred.

To set IE to check for newer versions of stored pages and enable active scripting, follow these steps:

- 1) Open Internet Explorer.
- 2) Click the gear icon at the top right section of the window and select Internet Options.
- 3) On the Internet Options window, in the General tab, click Settings.
- 4) On the Website Data Settings window, in the Temporary Internet Files tab, select Every time I visit the webpage, and then click OK.

- 5) On the Internet Options window, select the Security tab.
- 6) In the Select a zone to view or change security settings area, select Internet.
- 7) Click Custom Level.
- 8) In the Security Settings Internet Zone window, locate Scripting and set Active Scripting to Enable, and then click OK.
- 9) Click OK in the Internet Options window to finalize the Internet Explorer setup.



Installing FuelsManager v12.x at a Base Site

### Add IE as a Trusted Site

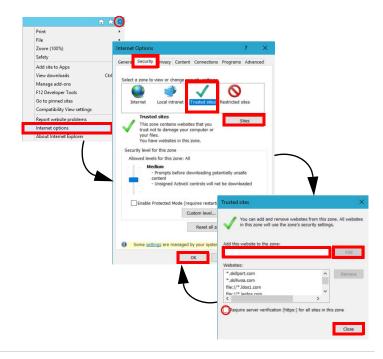
If client machines have *Font Download* set to Disable, then FuelsManager needs to be added to the IE Trusted Sites configuration. Otherwise, skip this step.

Follow the steps below:

- Click the gear icon at the top right section of the window and select Internet Options.
   b) On the Internet Options window, select the Security tab.
- 3) Select the Trusted sites zone.
- 4) Click **Sites** to add FuelsManager as a Trusted Site.
- On the Trusted sites window, add the FuelsManager url (Example: http://10.2.2.10/ fuelsmanager) to the zone, and then click Add.
- 6) Uncheck **Require server verification (https:) for** all sites in this zone, if needed.
- 7) Click **Close** to confirm your changes.
- 8) In the Internet Options window, click **OK** to save changes.

### **Helpful Tips**

- When displaying a graphic on a smaller monitor, you may need to use your browser's zoom setting, or pan the drawing (by clicking and dragging) to view the graphic properly.
- Videos embedded in the Help file require Adobe Flash Player. You must enable Flash in the browser. When using Chrome, access the browser Settings > Site Settings, and set Flash to Ask First. When you play the embedded video, it will prompt you to use Flash. Click Yes, to start the video.
- If a client cannot resolve the configured host name to an IP address, FuelsManager Help will not load. Ensure your DNS server is configured properly, or change the *DefaultHelpURL* in Configuration Settings from *localhost* to an IP address.
- If custom sound files are used, the sound files must be put on all application servers, and at the base site in this folder: C:\Program Files (x86)\FuelsManager\ FuelsManager\FMWebApp\sounds.
- When creating transaction aliases, do <u>not</u> use special characters (ex: &,#, etc.). The Ledger report does not support transaction alias IDs with special characters.
- The application *RS.exe* is used by the FuelsManager report installer. When Microsoft Shared Tools are available on the C: drive, the RS.exe application is detected and used automatically during report installation. When SQL Server Reporting Services is installed on the C: drive, this is the typical path of RS.exe: "C:\Program Files\Microsoft SQL Server Reporting Services\Shared Tools"
- When SQL Server Reporting Services has been installed on another drive (such as the E: drive), the RS.exe file is not detected automatically by the report installer. The typical path of RS.exe is "E:\Program Files\Microsoft SQL Server Reporting Services\Shared Tools" on these systems.



- Installation cannot proceed without knowledge of the location of the *RS.exe* file. To resolve this issue an Administrator must set the PATH environment variable:
   a) Select Control Panel > System > Advanced system settings > Environment Variables.
  - b) In System variables, select the Path.
    c) Click Edit > New and add the path to the location of RS.exe (for example E:\Program Files\Microsoft SQL Server
  - (In example 2. (Program Piles (Witrosoft SQL Server Reporting Services (Shared Tools).
    d) Click **OK**. You may proceed with the report install after this
- prerequisite has been met.
   Equipment Types must be created and owned at the SiteAdmin level. FLC requires configuration by Equipment
- Type.
  Within IM, avoid using names that match for Point Template ID, Module ID, Tag ID and Setting ID, even if different spaces are included. The software generally detects these issues but there may be cases where it does not. This situation will cause unexpected failures in point execution.
- Alarms & Events log record limit can be manually configured in the web.config file in the FuelsManager folder (C:\Program Files (x86)\FuelsManager\FuelsManager). The limit is 10000 events.
- Field Level Control Global Control Propagation is directed by rows in erv.tblTempCompanyRecordVersioningFlag.
   At the Enterprise, the FuelsManager Service drives the process.

The following app settings in FuelsManagerService.exe.config control the process.

- <add key="RecordVersionPropagationEnabled" value="true" />
- <add key="RecordVersionPropagationIntervalSeconds" value="30" />

The rows are processed by \_RowIndex.

Sync will control the order in which they are inserted at the Enterprise and hence the order they are processed.

## Helpful Tips (continued)

- A new tag, *Density Product Gauge*, was added to the Volume Correction module. If importing or using templates from a version prior to FM 12, you'll need to update the *Volume Correction* and *Standard Tank Calculator* modules on any template where they reside. Follow these steps:
  - 1) Edit the **template**.
  - 2) Navigate to the **Modules** tab.
  - 3) Select Volume Correction and click Remove Module.
  - 4) Click OK.
  - 5) Click Add Module.
  - 6) Select Volume Correction, and then click OK.

**NOTE:** Repeat the above steps for the *Standard Tank Calculator* module.

 To update the synchronization Node name for an existing Site, use the Configuration\Synchronization Settings page to revise the Sitename. Revise it once and Apply. Revise it back to the desired Sitename and apply again. You'll see the updated node name under Configuration Settings, InstallDetailsSynchronizationNodeName.

**NOTE:** Do <u>not</u> modify the synchronization node name directly within Configuration Settings because the

*SynchronizationNodeGuid* will not be updated and will cause an error.

- If rerunning initial sync, set Configuration Settings
   InstallDetailsSynchronizationNodeName back to previous so
   there is only one node to review data under.
- When configuring Companies, ensure the optional fields are populated for Name and Code.

# Appendix A: Prerequisite Roles and Features

## Internet Information Services (IIS) 10.0 Setup Requirements

When performing this procedure, if you are prompted to "Add features that are required," click Add Features.

- 1) Select **Start** → **Server Manager**.
- 2) Select Manage in upper right hand corner, and select Add Roles and Features.
- 3) In the Before you begin window, click Next.
- 4) Select Role-Based or feature-based installation.
- 5) Click Next.
- 6) Ensure Select a server from the server pool is selected and your server name appears in the box below.
- 7) Click Next.
- 8) In the *Select server roles* window, under *Roles*, verify that <u>only</u> the following roles are selected:
  - File and Storage Services
    - Storage Services
  - Web Server (IIS)
    - Common HTTP Features
      - Default Document
      - Directory Browsing
      - HTTP Errors
      - Static Content
    - Heath and Diagnostics
    - HTTP Logging
    - Performance
      - Static Content Compression
      - Dynamic Content Compression
    - Security
      - Request Filtering
      - URL Authorization
      - Windows Authentication
    - Application Development
      - .NET Extensibility 4.7 (4.6 for Windows 2016)
      - ASP.NET 4.7 (4.6 for Windows 2016)
      - .NET Extensibility 4.8 (4.8 for Windows 2022)
      - ASP.NET 4.8 (4.8 for Windows 2022)
      - ISAPI Extensions
      - ISAPI Filters
      - WebSocket Protocol
  - Management Tools
    - IIS Management Console
- If prompted, select the following in the Select features window, under Features, and verify that only the following are selected:
  - .NET Framework 4.6 Features (Server 2016)
    - .NET Framework 4.6

- ASP.NET 4.6
- WCF Services
  - HTTP Activation
  - Named Pipe Activation
  - TCP Activation
- TCP Port Sharing
- .NET Framework 4.7 Features (Server 2019)
  - .NET Framework 4.7
  - ASP.NET 4.7
  - WCF Services
    - HTTP Activation
    - Named Pipe Activation
    - TCP Activation
    - TCP Port Sharing
- .NET Framework 4.8 Features (Server 2022)
  - NET Framework 4.8
  - ASP.NET 4.8
  - WCF Services
    - HTTP Activation
    - Named Pipe Activation
    - TCP Activation
    - TCP Port Sharing
- Remote Server Administration Tools
  - Role Administration Tools
    - Remote Access Management Tools
      - Remote Access module for Windows
         PowerShell
- Windows PowerShell

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- Windows PowerShell 5.1
- Windows PowerShell ISE
- Windows Process Activation Service
  - Process Model
  - Configuration APIs
- WoW64 Support
- 10) Click Next and review selected features for accuracy.
- 11) Check the box at the top of the window for **Restart the** destination server automatically if required.
- 12) Click Yes in the pop-up window.
- 13) In the Confirm installation selections window, verify all components are selected and then click Install. The installation progress bar displays and you will receive messages indicating the installation progress. Once the installation is complete, Installation succeeded appears below the progress bar.
- 14) Click Close to exit the Add Roles and Features Wizard.
- 15) **Close** the *Server Manager* window. Restart the machine if it does not restart automatically.