INSTALLATION GUIDE FOR TRIMIT ECOMMERCE

This Document contains information about how to install **TRIMIT Ecommerce for TRIMIT Business Central**
This document is for Developers and experienced Consultants, hence the instructions do not include detailed menu paths, as it is expected that handling objects is common knowledge.

Date: 12-01-2026

Information shown in this document is based on:

- TRIMIT Modelyn 7.7.0
- TRIMIT BC Ecommerce-JAN26-release-001
- TRIMIT for Business Central (v25.2.17)

The installation of TRIMIT E-commerce requires the following:

- Client/Server for Microsoft Dynamics 365 Business Central
- SQL Server 2022 (16.0.4225.2)
- Customer Business Central License

This document will guide you through installation process. All files for the process are in the version package.

Note: this document describes a new installation. For update of an existing TRIMIT installation, please look in the document Upgrade Guide for TRIMIT E-commerce and Modelyn.

Contact

If you discover an issue on this update, please contact via http://my.trimit.com.

Disclaimer

Read these guidelines before you perform an Installation on your live database.
TRIMIT A/S, Partners of TRIMIT A/S or others cannot be held responsible for any damage caused by the installation of TRIMIT

TABLE OF CONTENTS

Introduction ... 3
Installation package description ... 3
Preperation ... 3
Hardware Requirements ... 3
Software Requirements ... 3
Prerequisites ... 4
Server 2022 setup ... 4
Other prerequisites ... 8
E-commerce Setup ... 8
Web Service in BC ... 18
Upgrade ... 19
Modelyn admin Initial Setup ... 19
Connections Setup ... 19
User Synchronization ... 20
Domain Setup ... 20
Schedules Setup ... 21
Portal's view setup ... 21
Setup cross domain URLs ... 21
Performance Indexes ... 22
Apply default indexes ... 22
Full Text Search ... 23
Installation steps ... 23
Website installation ... 23
BC setup ... 23
Data Synchronization ... 24
Payment Simulation Setup ... 24
Performance issues ... 24
Further reading ... 25

INTRODUCTION

TRIMIT Modelyn does not use installation manager in order to set up a web site. Instead, a manual installation is applied. This user guide describes all the steps for the manual TRIMIT for Business Central Modelyn installation with screenshots.
A shorter step-by-step instruction (aimed mostly for users familiar with Modelyn) for the installation of the TRIMIT for Business Central Modelyn and TRIMIT for Business Central Modelyn Integrator setup is described in chapter ***Installation steps***.

Shortened forms

- **TRIMIT for Business Central e-commerce** and **TRIMIT for Business Central Modelyn** will be referred further in the document as **TRIMIT e-commerce** and **TRIMIT Modelyn**

- **TRIMIT Business Central based on Microsoft Dynamics 365 Business Central** will be referred further in the document as **TRIMIT BC**

INSTALLATION PACKAGE DESCRIPTION

1. **Modelyn** folder: contains files and documents for setting up Modelyn & TRIMIT E-commerce
2. **BC** folder: contains XML portal views file which should be imported to TRIMIT BC

Please note that installation guides are contained within the TRIMIT e-commerce package.
Eventual *Readme* files are contained within their respective folders: **Modelyn** and **BC**
For further documentation, please visit TRIMIT Partner Portal at http://my.trimit.com.
For license terms, please contact your partner manager or read details on
https://my.trimit.com/sales/licenses/

PREPERATION

This is a list of recommended hardware and software requirements regarding Modelyn installation.

HARDWARE REQUIREMENTS

Find the latest hardware requirements and recommendations on myTRIMIT:
https://my.trimit.com/product/documentation/24-1.html/White%20Paper%20-%20TRIMIT%20Portals%20Hardware%20Requirements%2024.1.pdf

SOFTWARE REQUIREMENTS

- Google Chrome
- Microsoft SQL Server 2022 (16.0.4225.2)
- .NET Framework (latest, according to this site: https://versionsof.net/framework/)
- TRIMIT Business Central
- Windows installer latest version

© TRIMIT A/S

PREREQUISITES

SERVER 2022 SETUP

When installing Modelyn manually on a Windows Server 2022, remember to add these Server Roles under IIS:

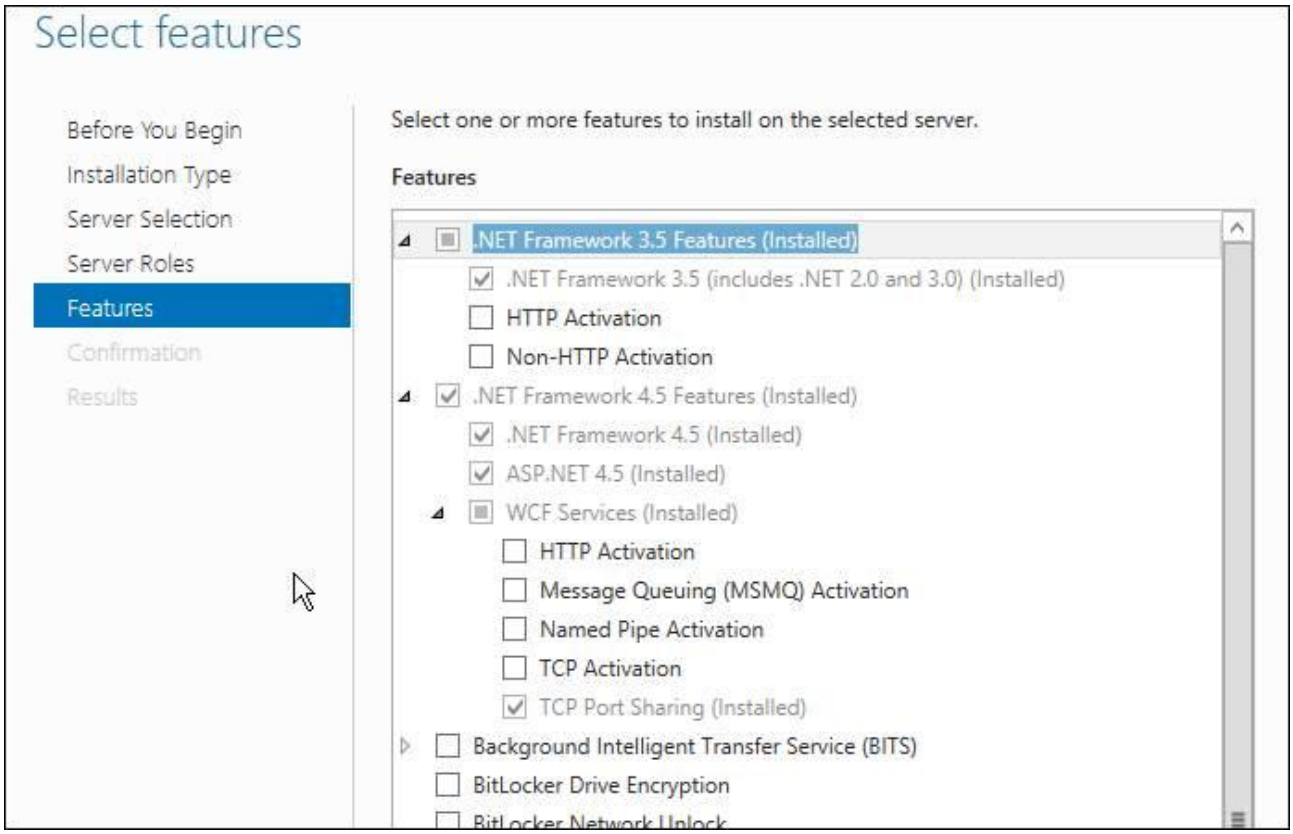
- **Application Development: ASP.NET 4.5** - without completion of this step there can be number of errors on the working site.
- **Security: Windows Authentication** - used by Modelyn to be able to authenticate as windows administrator so it is possible to create DB and etc.

List of IIS features and roles to be enabled:

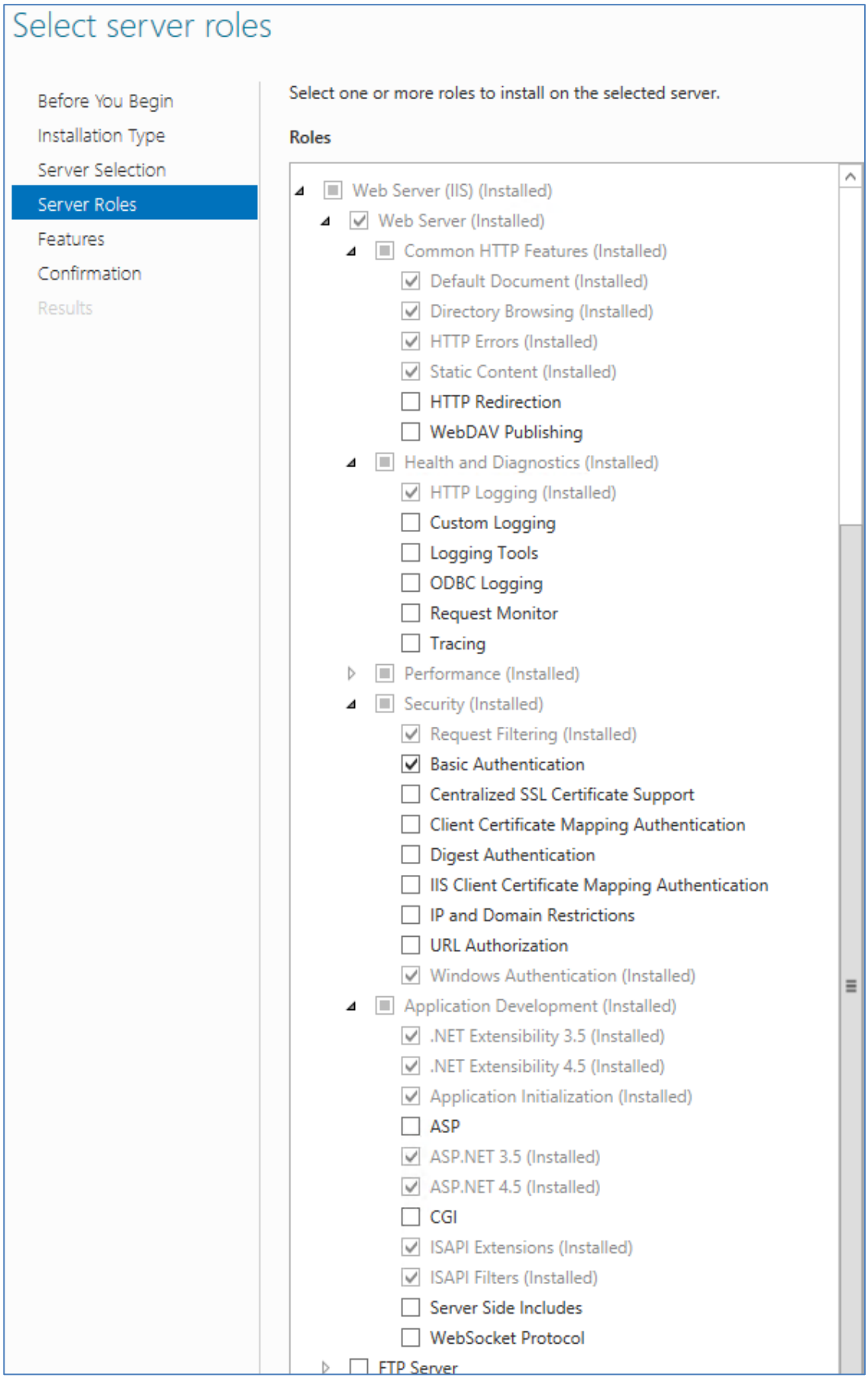
1. .NET Framework 3.5 features
    - .NET Framework 3.5 (includes .NET 2.0 and 3.0)
2. .NET Framework 4.5 features
    - .NET Framework 4.5
    - ASP.NET 4.5
    - WCF Services
        - TCP Port Sharing
3. Web Server IIS
    - Web Server
        - Common HTTP Features
            - Default Document
            - Directory Browsing
            - HTTP Errors
            - Static Content
        - Health and diagnostics
            - HTTP Logging
        - Security
            - Request filtering
            - Basic authentication
            - Windows Authentication
        - Application Development
            - .NET Extensibility 4.5
            - ASP.NET 4.5
            - ISAPI Extensions
            - ISAPI Filters

Here are screenshots of **IIS** features and roles enabled (can be found in ***Control Panel/Programs and Features/Turn Windows features on or off***):

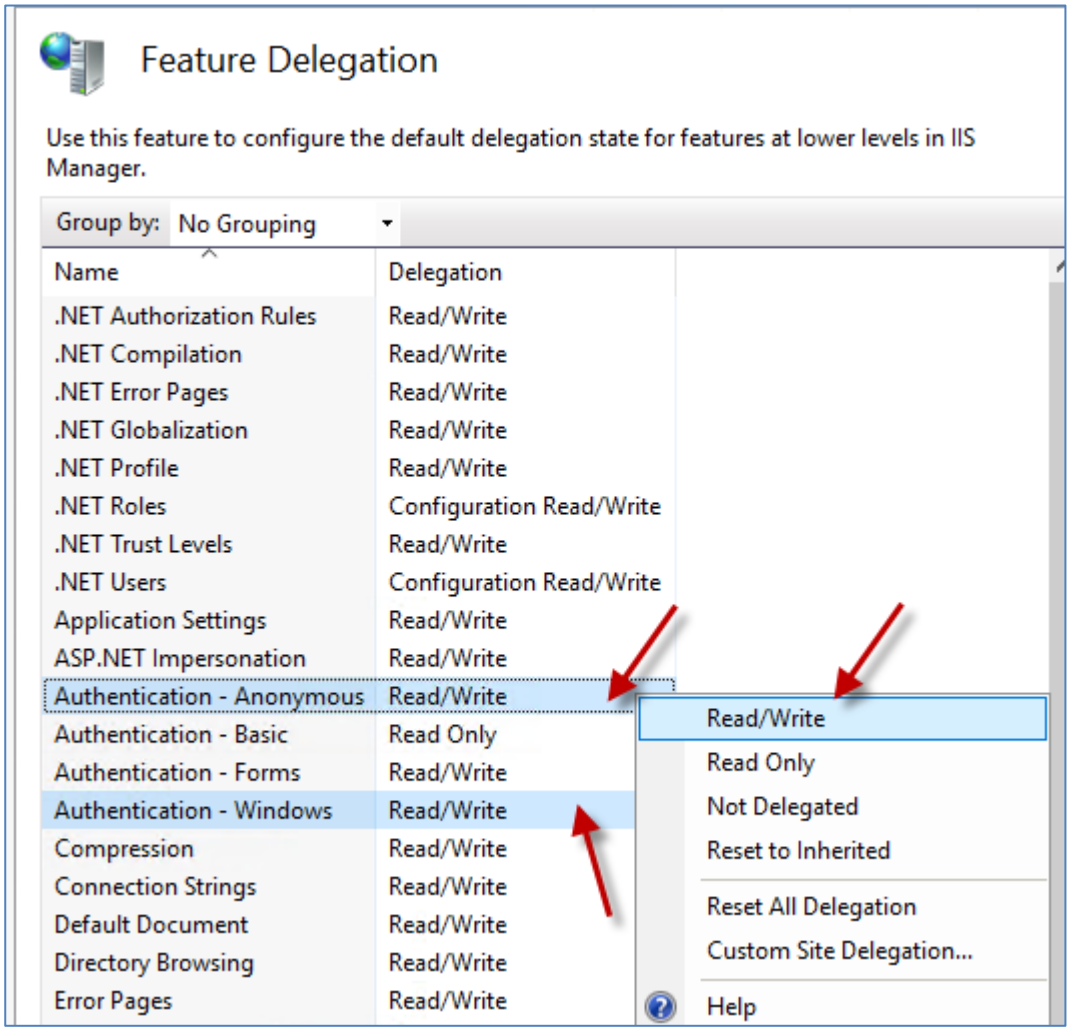
© TRIMIT A/S


Select features
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select one or more features to install on the selected server.
Features
.NET Framework 3.5 Features (Installed)
.NET Framework 3.5 (includes .NET 2.0 and 3.0) (Installed)
HTTP Activation
Non-HTTP Activation
.NET Framework 4.5 Features (Installed)
.NET Framework 4.5 (Installed)
ASP.NET 4.5 (Installed)
WCF Services (Installed)
HTTP Activation
Message Queuing (MSMQ) Activation
Named Pipe Activation
TCP Activation
TCP Port Sharing (Installed)
Background Intelligent Transfer Service (BITS)
BitLocker Drive Encryption

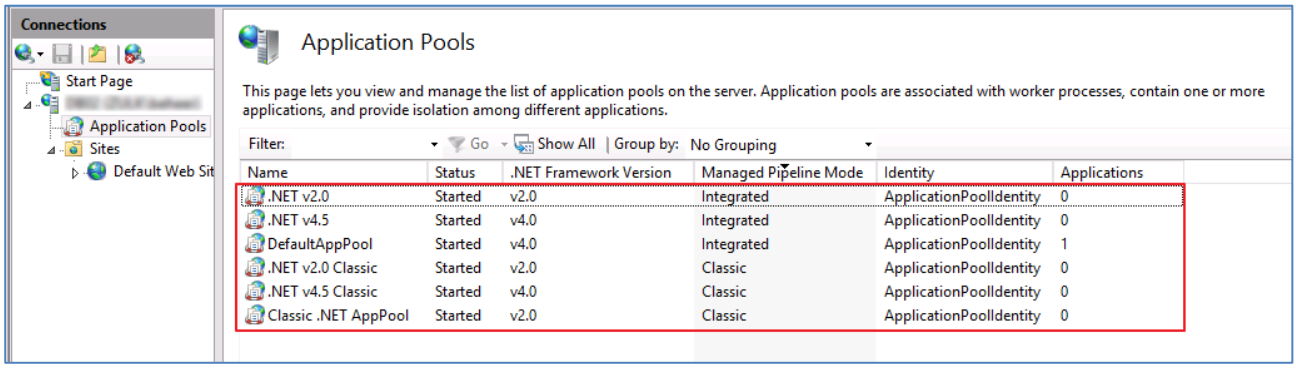
© TRIMIT A/S


Select server roles
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select one or more roles to install on the selected server.
Roles
Web Server (IIS) (Installed)
Web Server (Installed)
Common HTTP Features (Installed)
Default Document (Installed)
Directory Browsing (Installed)
HTTP Errors (Installed)
Static Content (Installed)
HTTP Redirection
WebDAV Publishing
Health and Diagnostics (Installed)
HTTP Logging (Installed)
Custom Logging
Logging Tools
ODBC Logging
Request Monitor
Tracing
Performance (Installed)
Security (Installed)
Request Filtering (Installed)
Basic Authentication
Centralized SSL Certificate Support
Client Certificate Mapping Authentication
Digest Authentication
IIS Client Certificate Mapping Authentication
IP and Domain Restrictions
URL Authorization
Windows Authentication (Installed)
Application Development (Installed)
.NET Extensibility 3.5 (Installed)
.NET Extensibility 4.5 (Installed)
Application Initialization (Installed)
ASP
ASP.NET 3.5 (Installed)
ASP.NET 4.5 (Installed)
CGI
ISAPI Extensions (Installed)
ISAPI Filters (Installed)
Server Side Includes
WebSocket Protocol
FTP Server

Open Feature Delegation for the IIS and set to **Authentication – Anonymous** and **Authentication - Windows** to *Read/Write*:



Default **IIS** application pools, which indicate the right setup:



© TRIMIT A/S

Alternatively, to enable all required server features on the webserver you can run the following script in PowerShell with admin rights:

```
$webFeatures = "Web-Server", "Web-WebServer", "Web-Common-Http", "Web-Default-Doc", "Web-Dir-Browsing", "Web-Http-Errors", "Web-Static-Content", "Web-Basic-Auth", "Web-Windows-Auth", "Web-Net-Ext", "Web-Net-Ext45", "Web-Asp-Net", "Web-Asp-Net45", "Web-ISAPI-Ext", "Web-ISAPI-Filter", "Web-Mgmt-Console", "Web-Scripting-Tools"

foreach ($feature in $webFeatures)
{
    Install-WindowsFeature -Name $feature
}
```

OTHER PREREQUISITES

In order to successfully proceed with e-commerce installation process - consider the following prerequisites:

- E-commerce license (can be obtained via the partner portal, i.e. https://partner.trimit.com/sales/submit-license-order/);
- **For On-premises BC version only:** (NavUserPassword + External User in License Type on User Card in BC https://learn.microsoft.com/en-us/dynamics365/business-central/dev-itpro/administration/authenticating-users-with-navuserpassword?tabs=admintool). Assign sufficient permissions, i.e. TRIMIT-POR-ADMIN and TRIMIT-POR-BASIC (*Users/User Card*)
  For connection to BC on Azure please refer to *White Paper – TRIMIT Oauth Authentication in Connect Setup*
- Add Full Text Search on SQL Server

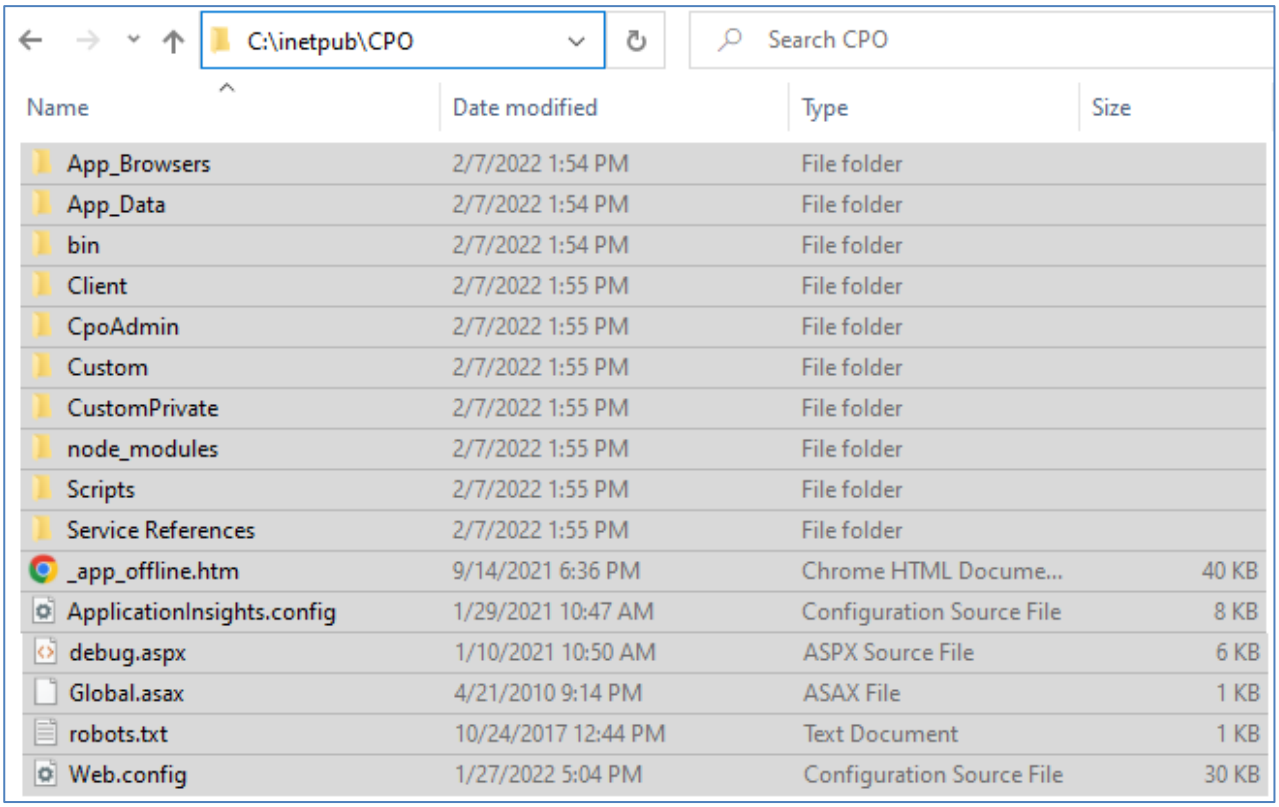
E-COMMERCE SETUP

Here is the order to install and set up TRIMIT E-commerce web site:

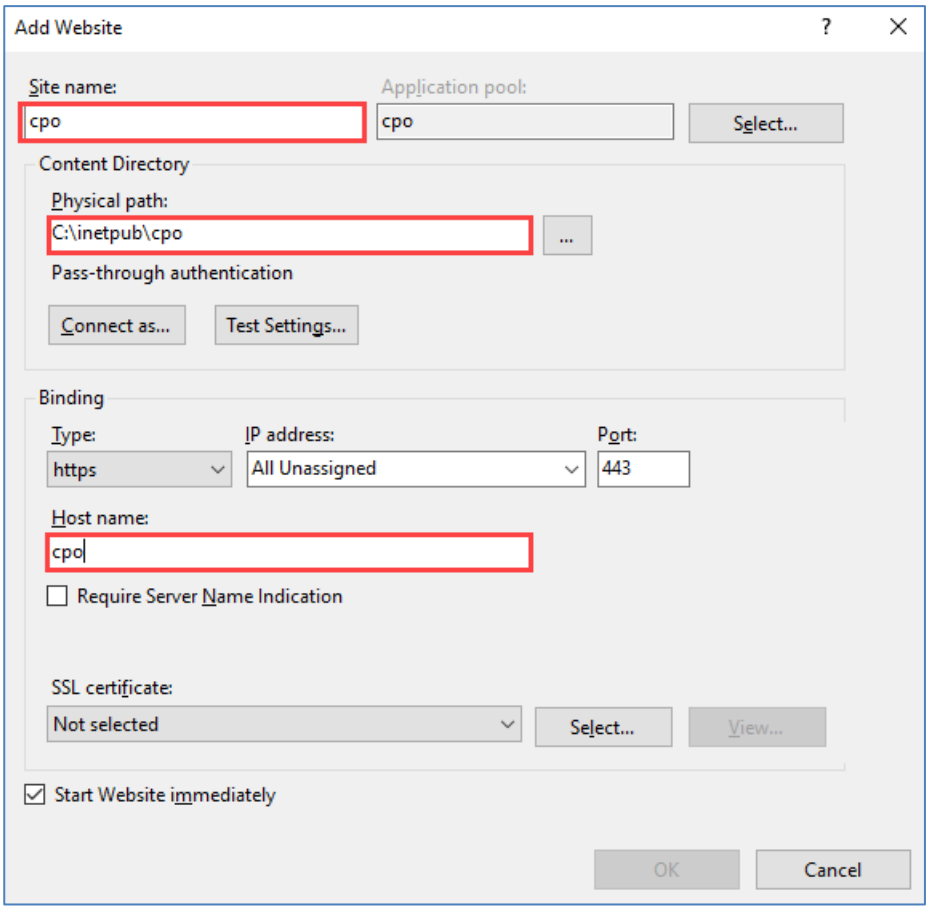
1. Create folders (without spaces in path) as follows:
   C:\inetpub\CPO
   C:\inetpub\CPO_Files

   Note: the application pool identity (e.g. "iis apppool\cpo") must be added to security properties for both folders. Folders Custom and CustomPrivate need to have Modify permission. It is important to remove Modify permission from cpo.config file in CPO folder after portal installation is finished. Write permission might be added to some files in this folder during portal customization phase. Folder CPO_Files must have Modify permission for application pool identity even after portal installation is finished.

2. Unzip **TRIMIT <version> E-commerce <build>.zip**. Copy contents of **CPO** folder within the package (folder path ***\TRIMIT <version> E-commerce\Modelyn\Cpo***) over to the created path:

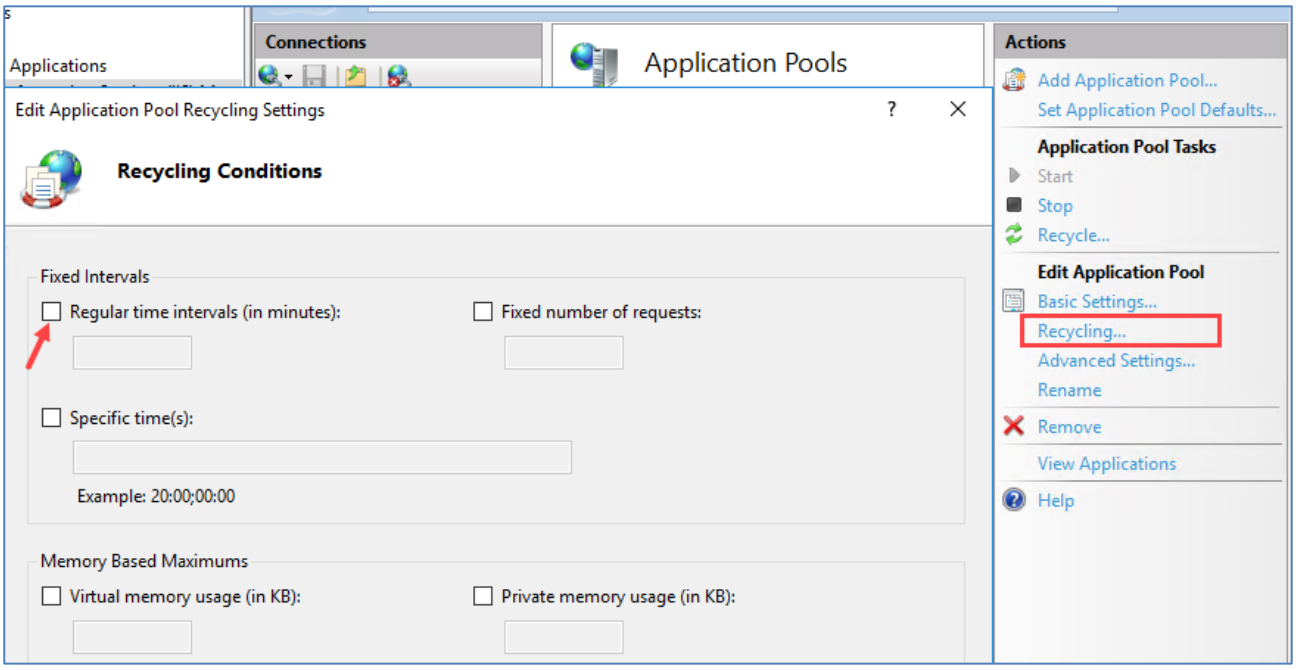


3. In IIS, create new web site with name and path to folder from section 1. (give a host name, e.g. "*cpo*"); specify needed parameters in "*Add Website*" window, e.g.:



In "*Physical Path*" point to the earlier created folder (***CPO***). Apply valid SSL certificate. Click OK.

4. Consider removing application pool recycling as it can affect the data synchronization



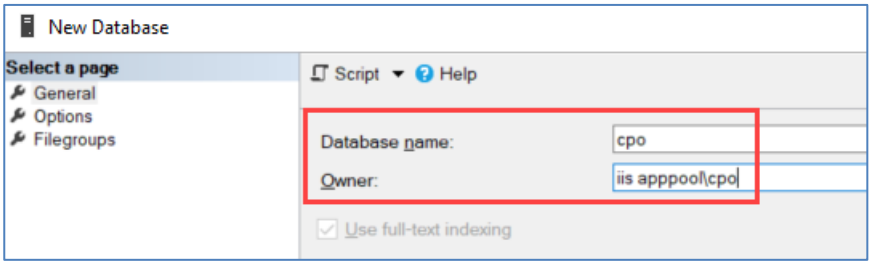
Additionally, we recommend setting ***Disable Overlapped Recycle*** to *TRUE*, under App pool Advanced Settings.

© TRIMIT A/S

5. In application pool Advanced Settings make sure ***Identity*** = "*ApplicationPoolIdentity*"; ***Start Mode*** set *Always Running*; ***Idle Time-out*** set *0*, ***Specific Times*** set *TimeSpan[] Array,* ***Disable Overlapped Recycle*** set *True* and click **OK**.

6. Authentication in Modelyn database. There are two options here:

   a) For portal and SQL on the same server:
   You can use AppPoolIdentity. In SQL Server Management Studio go to Security/Logins and make sure that Application pool identity user, e.g. "iis apppool\cpo", is added (no need to add server roles). Then, create a new DB with this new user as an owner:



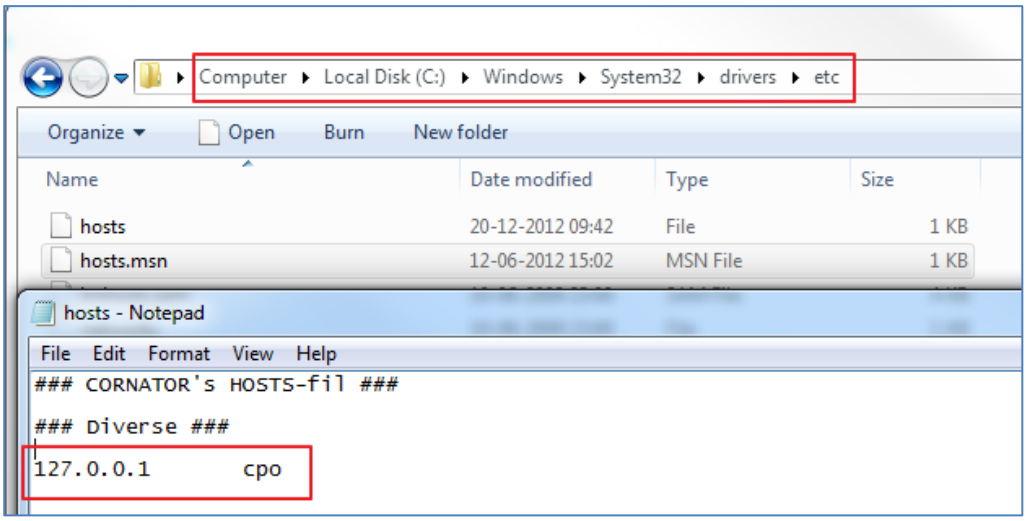
   This Modelyn DB name will be used further in this guide.

   b) Portal and SQL on different servers (also applicable when both on same server):
   Setup SQL server user (in SSMS, right click on instance name to open Server Properties, select Security and select SQL Server and Windows Authentication mode), then in SSMS under Security – right click on Logins and create new login, use any preferred name and select SQL Server Authentication and specify a password, consider removing *Enforce password policy*. Click OK to finish user creation.
   **remember to set Server Authentication = 'SQL Server and Windows Authentication' mode under Security in SQL server properties.*

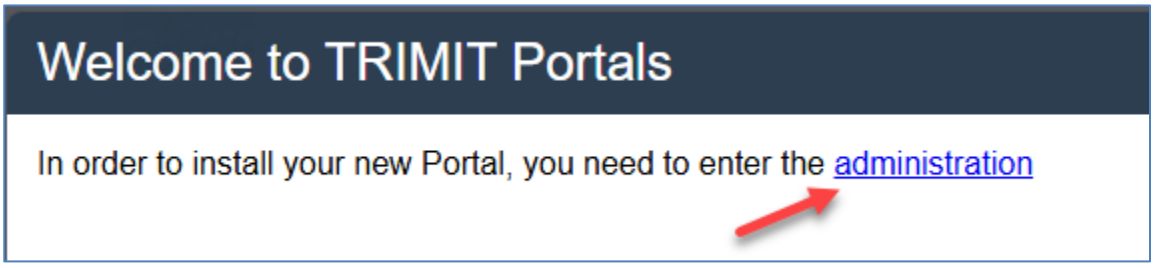
7. Creation of Modelyn database – in SQL Management Studio, right click on Databases and select New Database. Specify desired name in Database name field. In field Owner click lookup button. Click Browse. Find SQL user and select it by clicking in corresponding check box. Click OK. And click OK to finalize DB creation. In this way this SQL user will become a DB owner.

8. Specify a host name, i.e. "*cpo*" in host file locally on the server and save the changes. This makes the E-commerce website accessible only on current server. To make the E-commerce website accessible outside of the server and domain the external DNS setup should be made (not described in this document).

© TRIMIT A/S

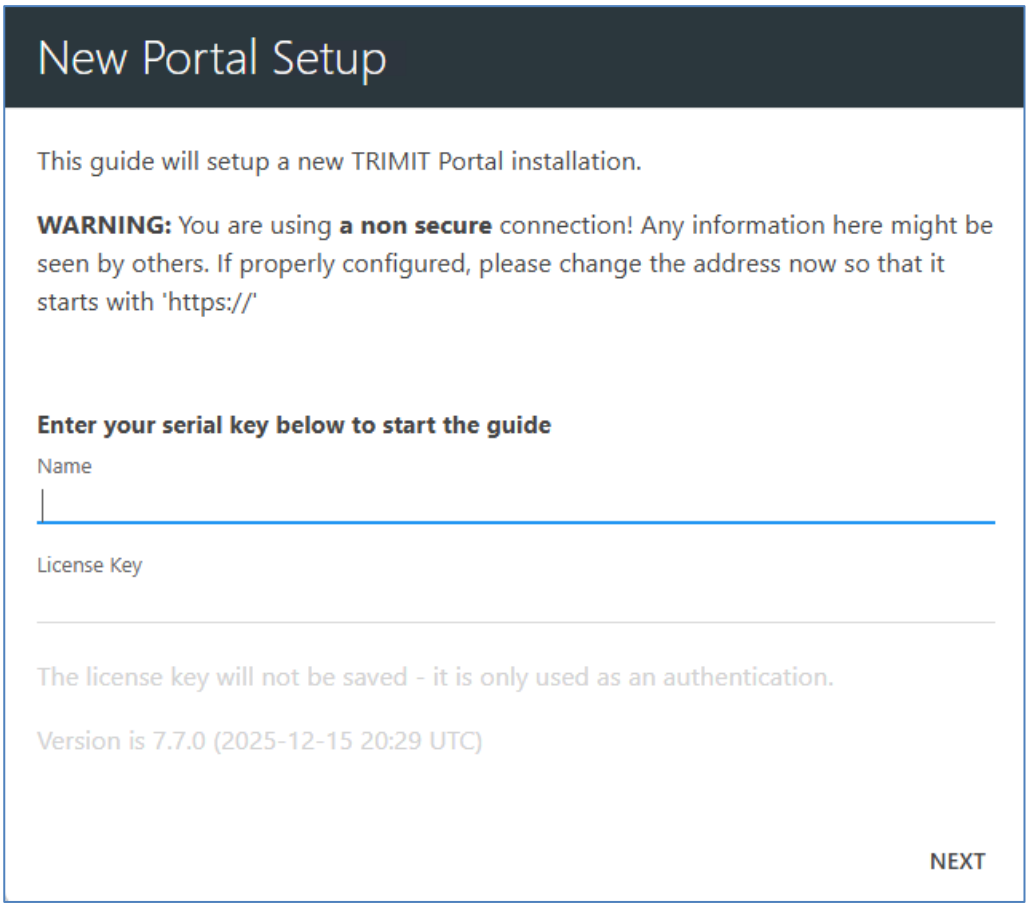


9. Request "***https://cpo***" in browser. If there is no redirect to the Modelyn administration site, then look into Windows Logs for errors in Modelyn. If there is an error, then it may refer to insufficient permissions for ***C:\inetpub*** folder (this is a default folder). If this is the case – add e.g. "iis apppool\cpo" user in Security option for the folder, granting "Write" permission in addition to the default ones. Remove this option after installation is finished.
10. Follow instructions for creating and updating (running script) DB: on the "Site Down" page click on "administration", e.g.:



You will get to the "Welcome to Portals" page. Specify a Name and License Key parameters provided by your partner, and click Next:

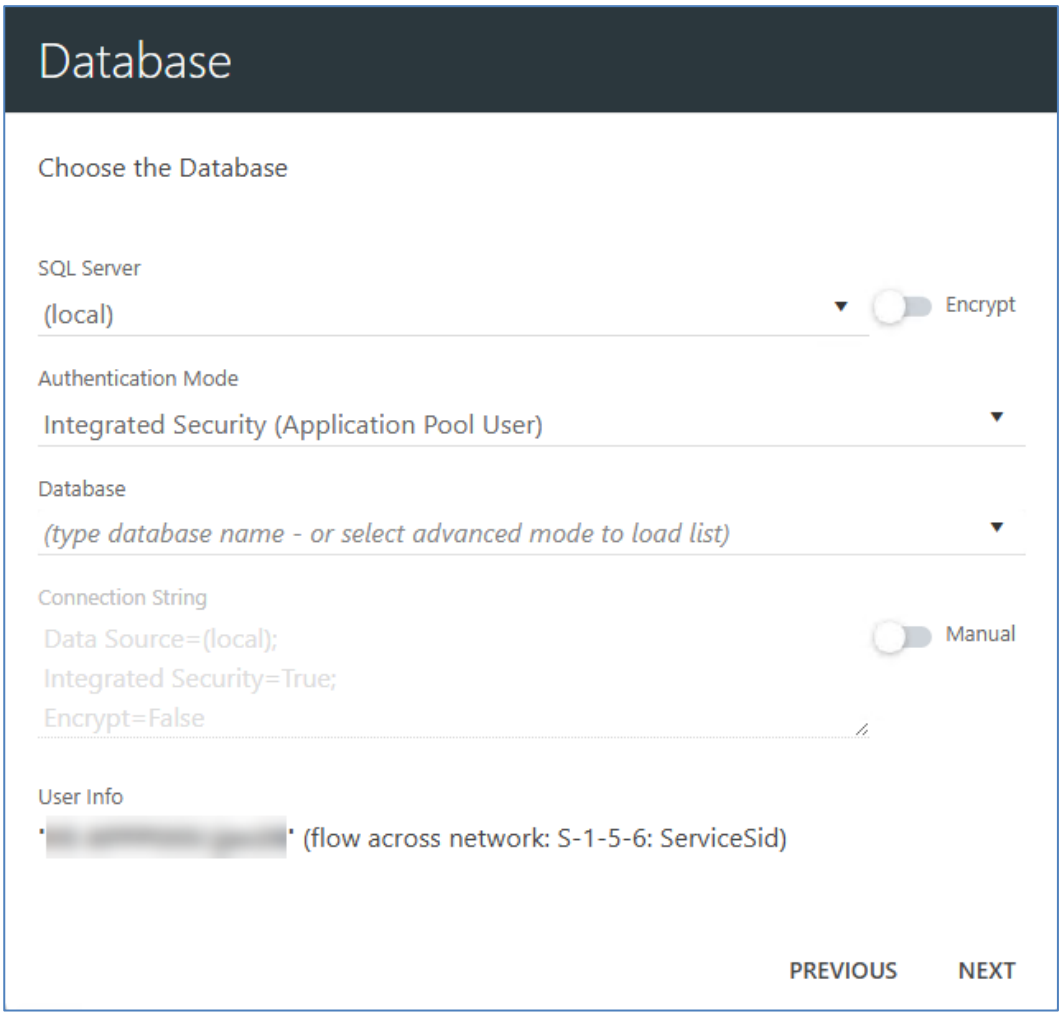
© TRIMIT A/S



If you are upgrading your solution then go to **UPGRADE** section in this document.

Next window in the wizard is the Modelyn DB creation:

© TRIMIT A/S



We recommend to create Modelyn DB manually, which is described in step 7 in this guide. However, in this step you will connect to this database and then create the tables needed.

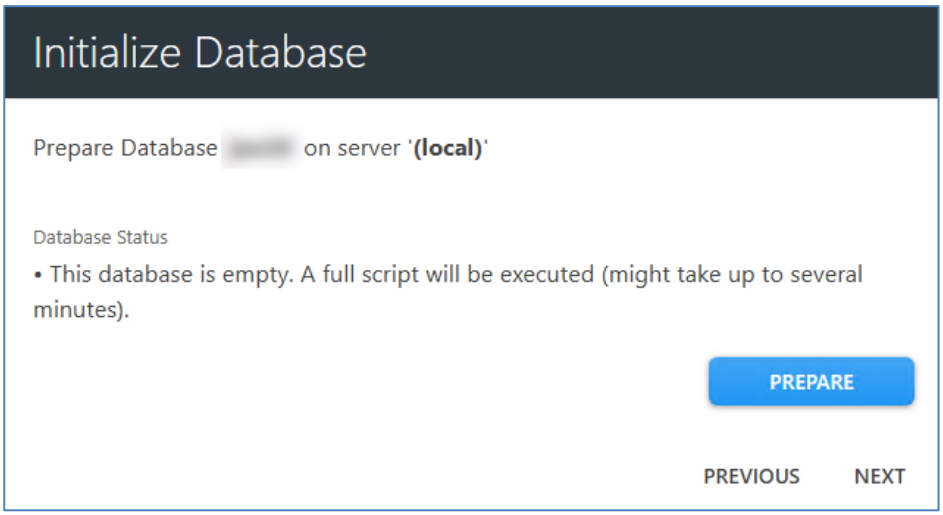
For the SQL user select **Authentication Mode** = *SQL*. For the ApplicationPoolIdentity user select **Authentication Mode** = *Integrated Security (Application Pool User)*. In User ID and Password fields specify SQL user credentials if relevant.

In field Database specify Modelyn database name, which has been created in step 7. Test connection by clicking Test. You should see a message with following text: “Successfully talked to server…”

Click Next to proceed to the next step.

In “Initialize Database” window click Prepare in order to run the database upgrade script (this creates database tables), e.g.:

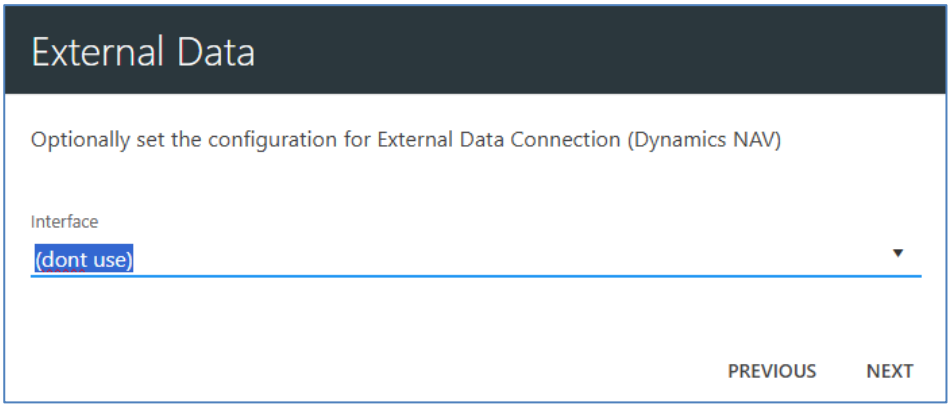
© TRIMIT A/S



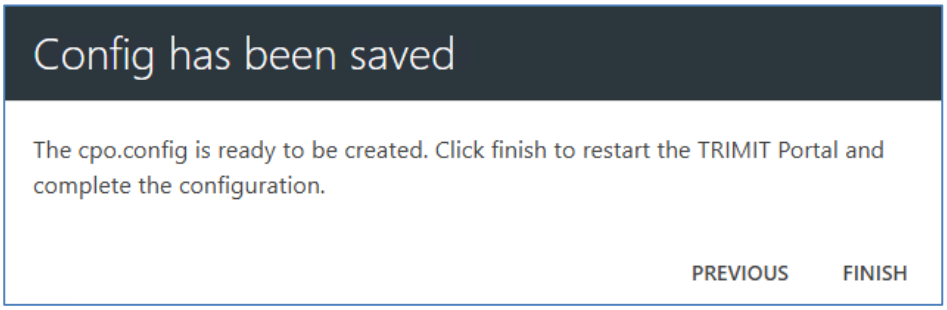
After this there will be a status for the update script action.

Click Next to proceed to the next window.

In “External Data” window select (or skip) external (BC) data setup. If you skip this setup on this stage then there will be a possibility to do this setup in the Modelyn admin under *Admin/Setup/Connections.*



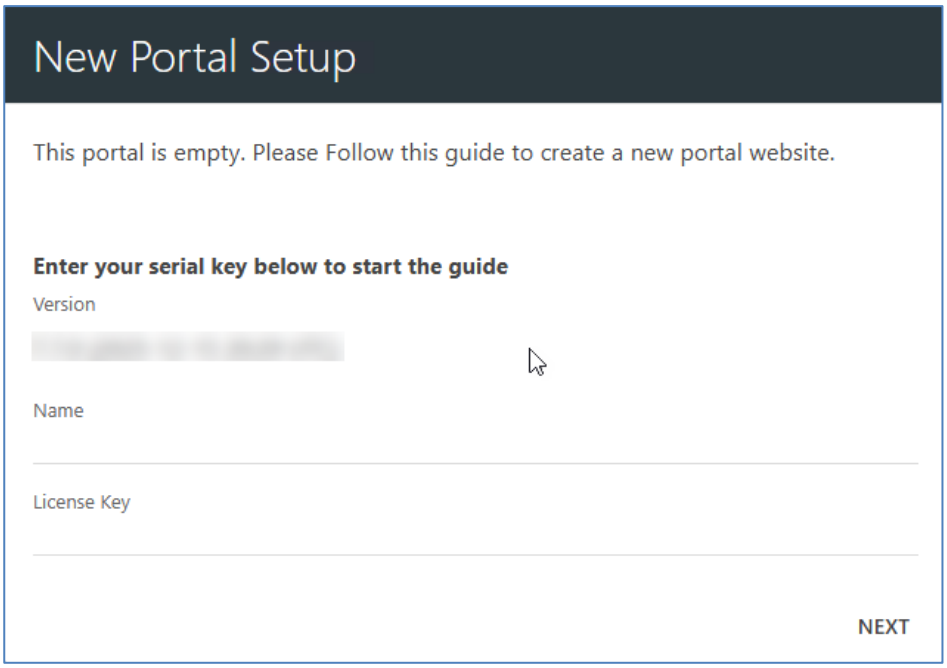
Click Next to proceed to the final window for the web site configuration file setup.



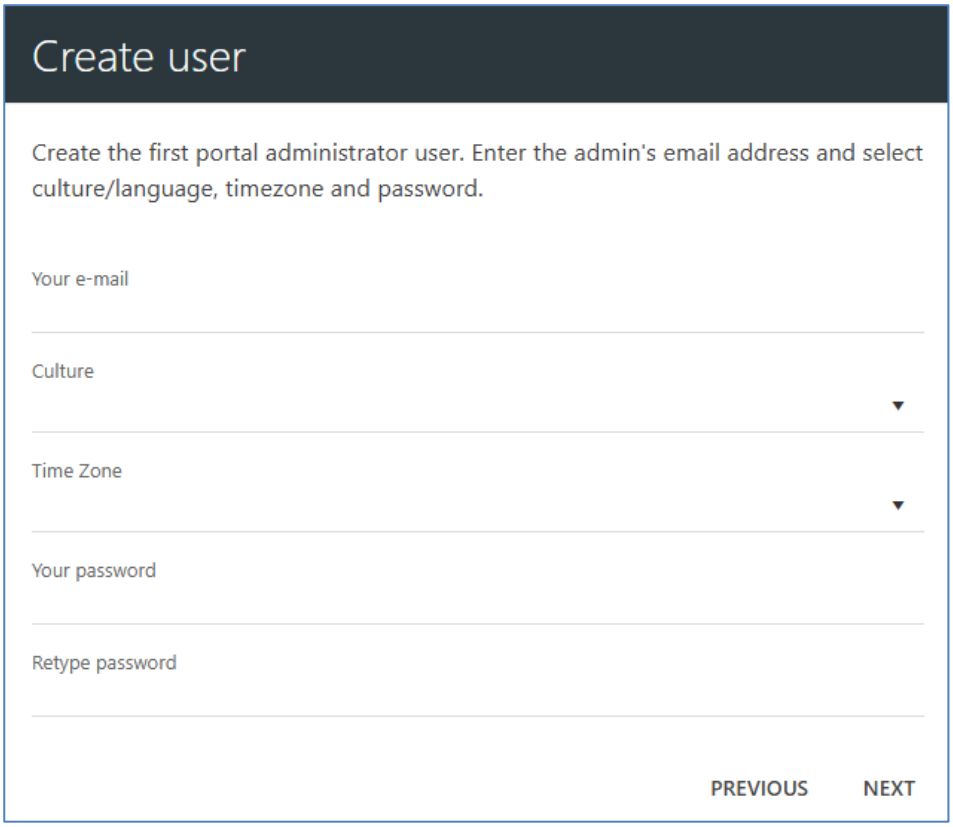
Click Finish to proceed to the web site start wizard setup. This may take few moments.

In “Welcome to ConnectPortal” window specify Name and License Key provided by your partner, then click Next, e.g.:

© TRIMIT A/S

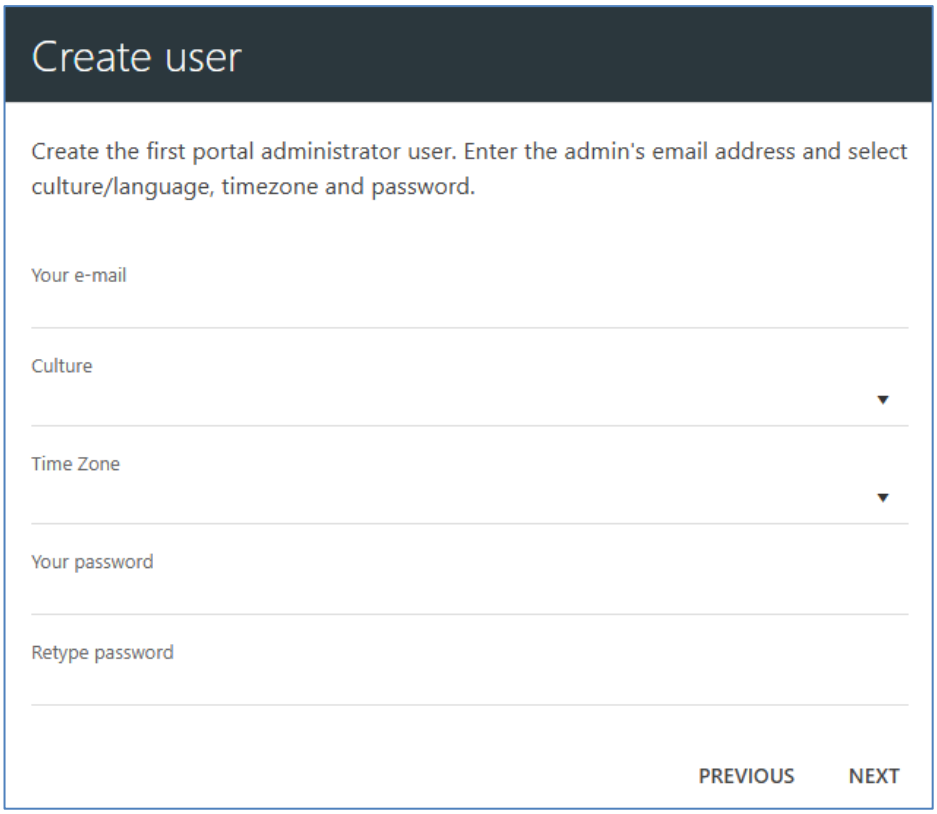


In “Create User” window create a first website user with admin rights. Remember these credentials as they will be needed to log in to the Modelyn admin site. After finished click Next:

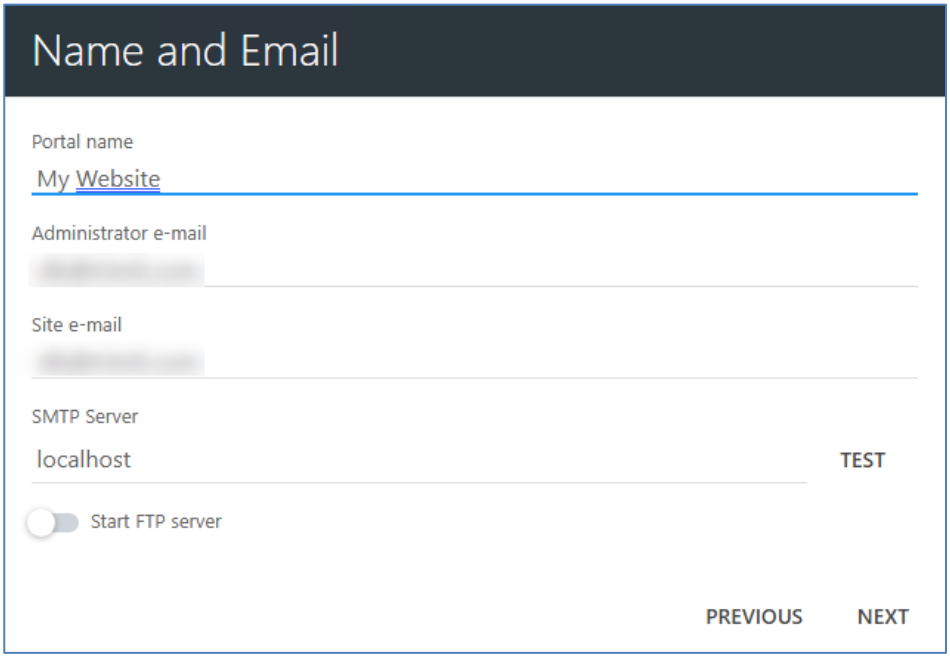


In “Language Selection” window select language by clicking on the needed one, then click Next e.g. (English language is a default and cannot be deselected):

© TRIMIT A/S



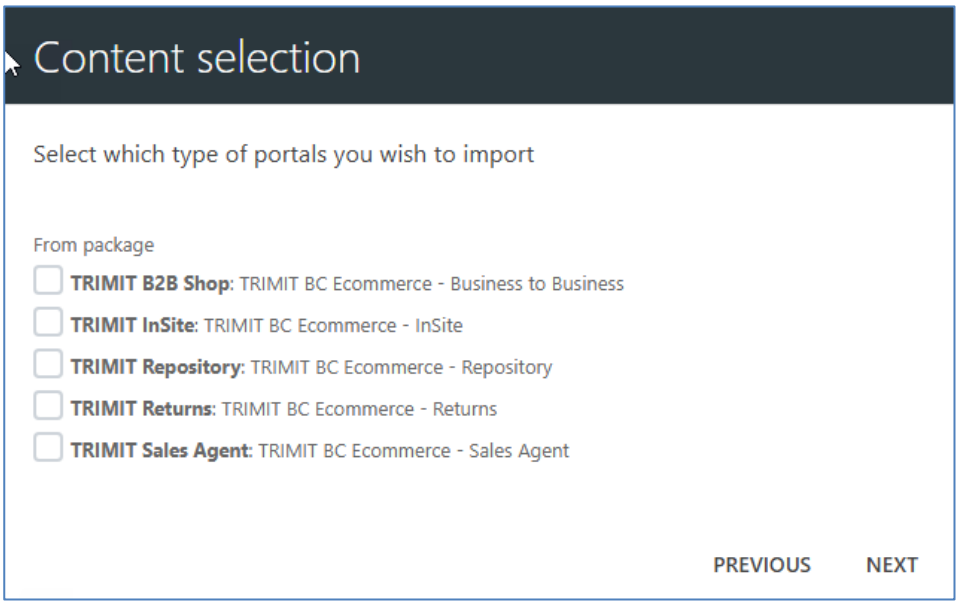
In “Name and Email” window specify the setup for the email and SMTP, then click Next, e.g.:



To test the SMTP it is possible to download and install a free application “SMTP4dev” from this source: https://github.com/rnwood/smtp4dev

© TRIMIT A/S

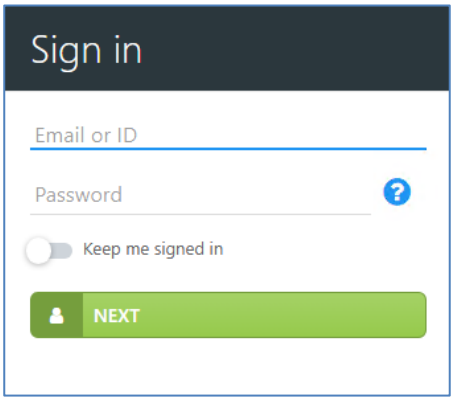
In “Content selection” window select needed portal and TRIMIT Repository (PIR), then click Next. TRIMIT Repository (PIR) will be used for all portals for storing and managing pictures and in this way all portals can share same pictures.



In the next window click Finish in order to proceed to the Modelyn admin.

This may take a few moments.

Now use the credentials from the previously created admin user to log in to Modelyn administration webpage:



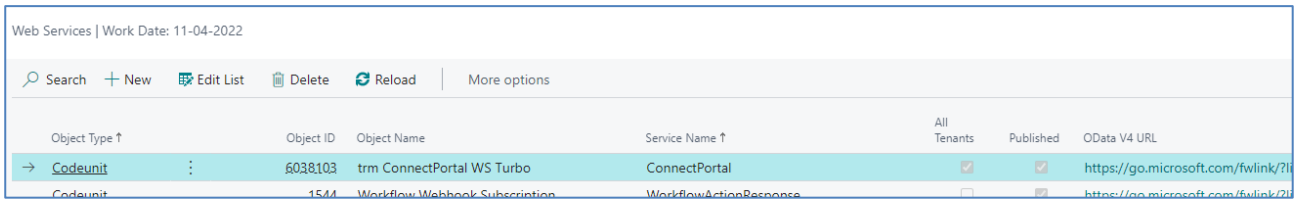
WEB SERVICE IN BC

It is also important to manually add Web Service in BC with the following data:

Object type: Codeunit; Object ID: 6038103; Object Name: trm ConnectPortal WS Turbo

Service Name: ConnectPortal; All Tenants: True; Published: True

© TRIMIT A/S



UPGRADE

For the information about the Modelyn and E-commerce upgrade, please refer to document "**Upgrade Guide for TRIMIT for Business Central E-commerce and Modelyn**".

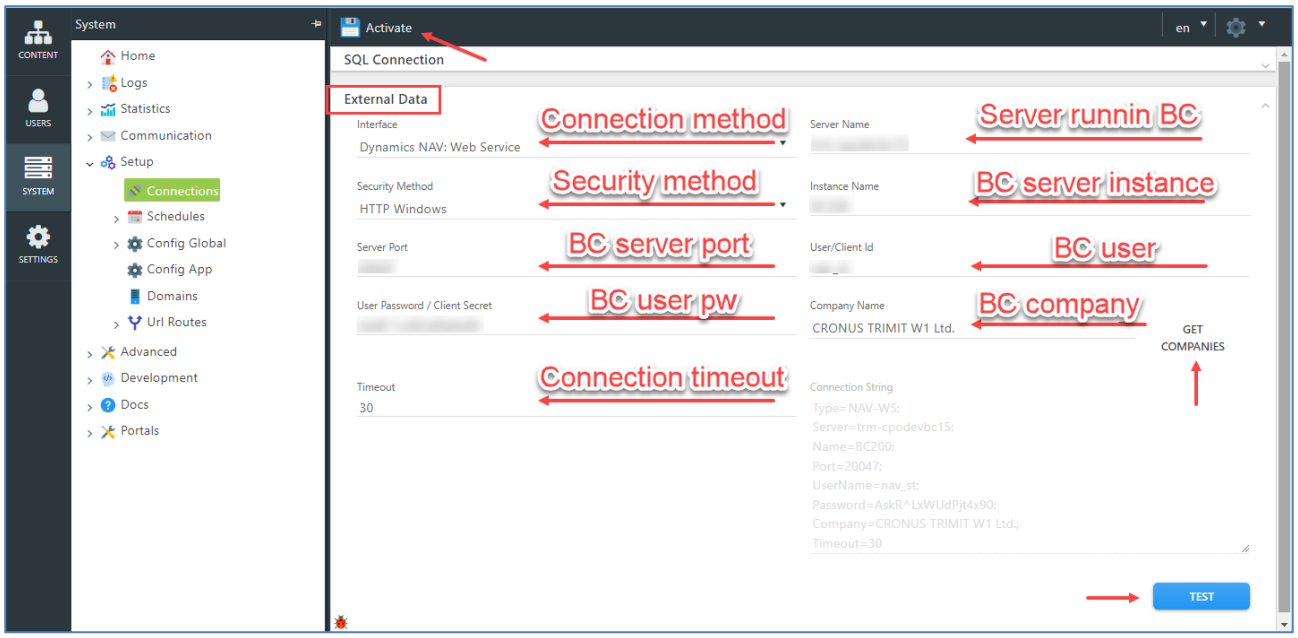
MODELYN ADMIN INITIAL SETUP

CONNECTIONS SETUP

Note: after installation is finished – restart the application pool one time; save the view (portals.xml or webshop.xml) and reboot the application pool one more time in order to complete the registration of all needed components.

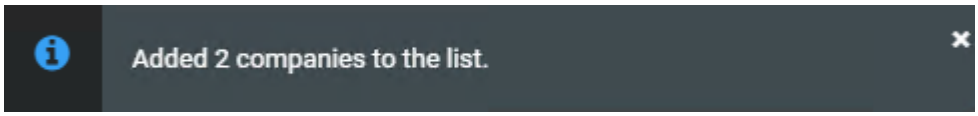
After the first login to the Modelyn admin webpage it is recommended to do the following steps:

Setup connections in Modelyn admin under *Admin/System/Setup/Connection* (check correctness of Initial Catalog, BC instance name and server port). Connection setup is split in two parts – SQL Connection (handled in portal setup wizard) and External Connection:

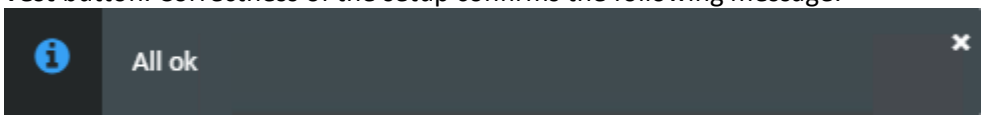


For connection to BC on Azure please refer to *White Paper – TRIMIT Oauth Authentication in Connect Setup.*

After all needed parameters are set press **Get Companies** in order to get a list of TRIMIT companies. The following message in the lower right corner of the page will confirm that the setup is correct:



Choose needed TRIMIT Business Central company from **Company Name** field. Test the setup by pressing **Test** button. Correctness of the setup confirms the following message:



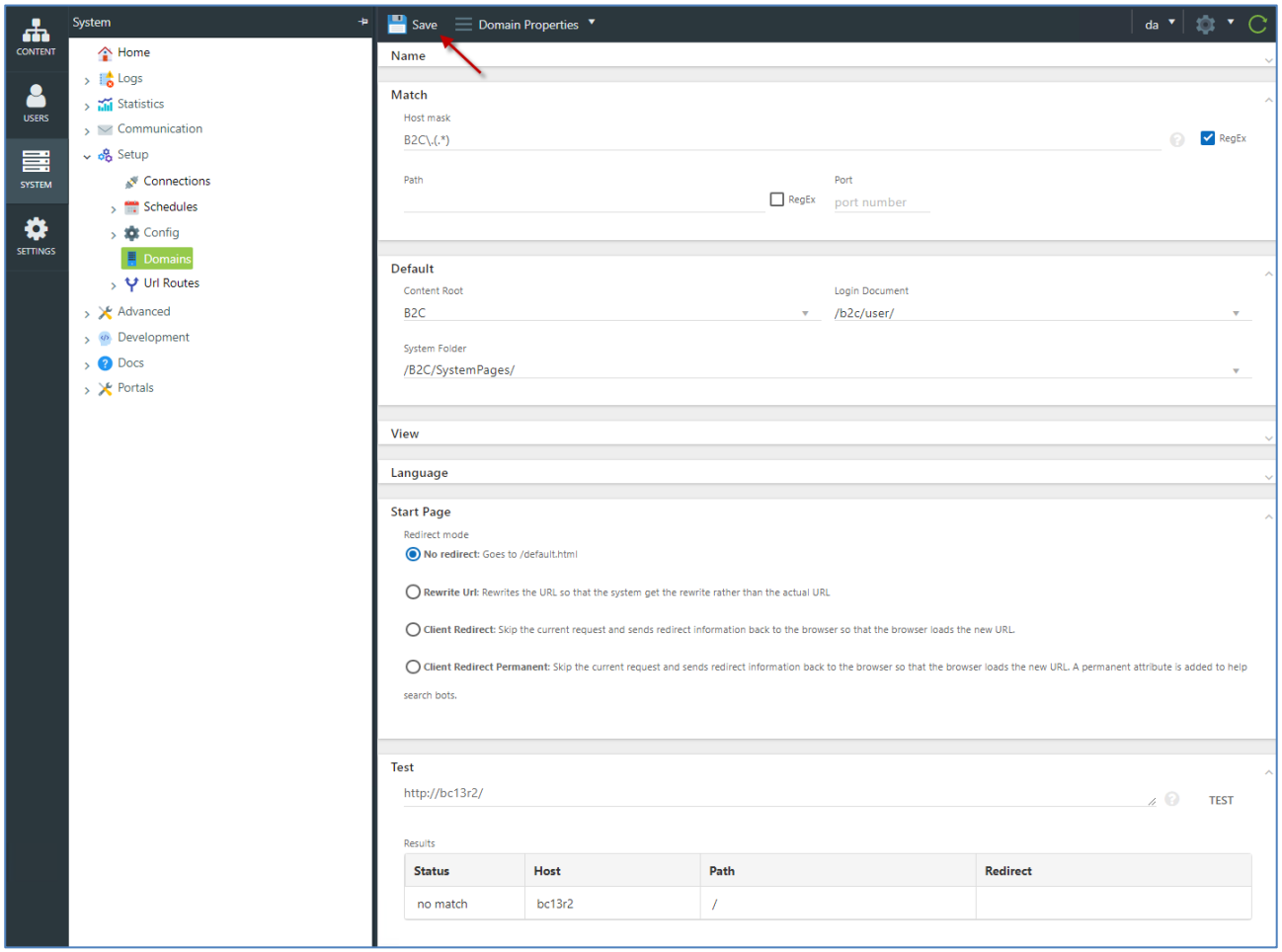
Save and activate the setup by pressing on **Activate** button in the top of the **Connections** page.

USER SYNCHRONIZATION

Now it is needed to synchronize the Modelyn users with TRIMIT BC.
Go to ***Users/Users*** and add (if needed) users in addition to already created Modelyn administrator. To synchronize users go to ***Users/Synch TRIMIT BC.***
For more information read "**White Paper – TRIMIT E-commerce User Setup**".

DOMAIN SETUP

Make a domain setup under *Admin/System/Setup/Domains:*



For more information refer to "**Installation Guide for TRIMIT BC Modelyn Domain Setup**".

© TRIMIT A/S

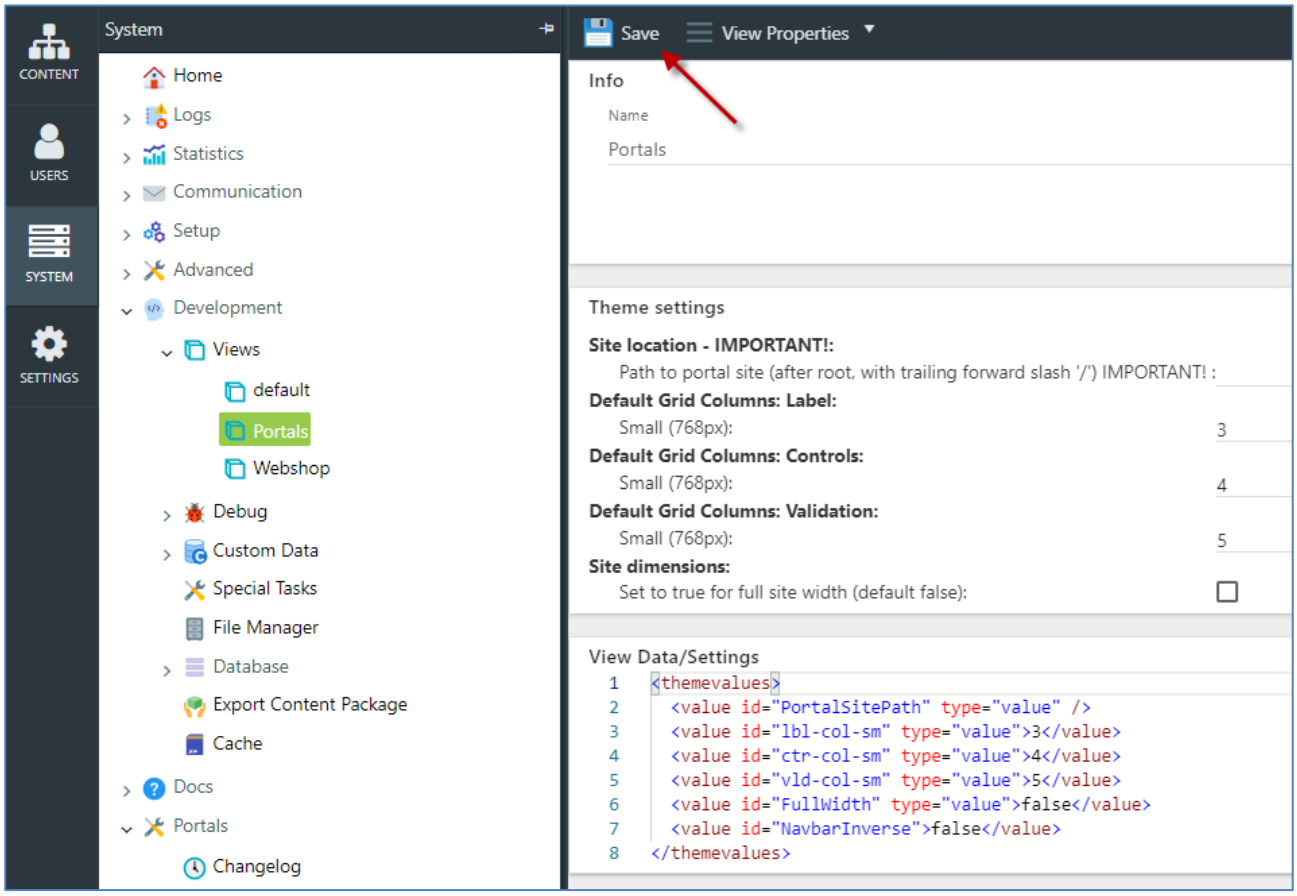
Click **Save** to apply changes.

SCHEDULES SETUP

Schedules synchronize data on SA portal and B2B webshops.
The schedules are preset with the default values and domain paths are resolved by the system.
To customize the schedules by changing the running frequency, disabling or adding new schedules refer to "**White Paper – TRIMIT Portals Schedules**".

PORTAL'S VIEW SETUP

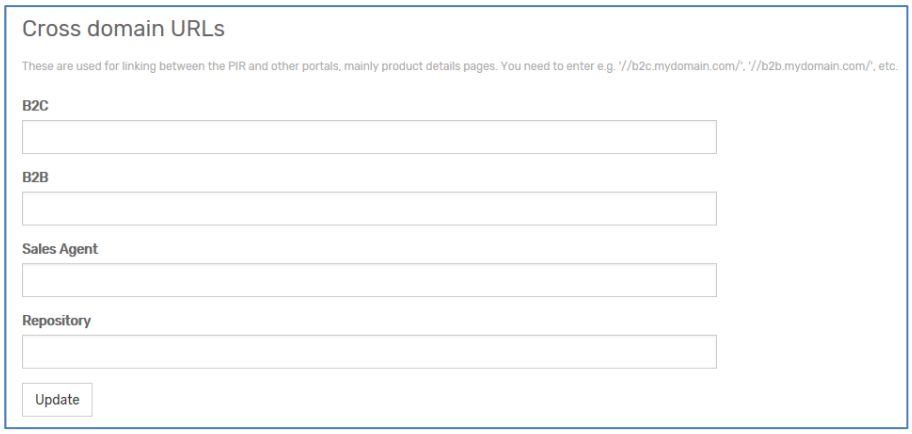
In a situation when there have to be installed several portals (e.g. Sales agent portal or B2B webshop) it is needed to apply corresponding web site XML views: ***portals.xml*** for SA, B2B and Supplier (default XML view file location is in E-commerce installation folder ***CustomPrivate/Views***). To apply views - click on corresponding view in treeview and click **Save**:



IMPORTANT: recycle application pool in IIS when e-commerce setup is finished.

SETUP CROSS DOMAIN URLS

In PIR, under Setup/Settings:



Add PIR reference to Portals view in Modelyn as follows:
<value id="RepositoryCrossDomainUrl">//<pir>.<your domain name>/</value>

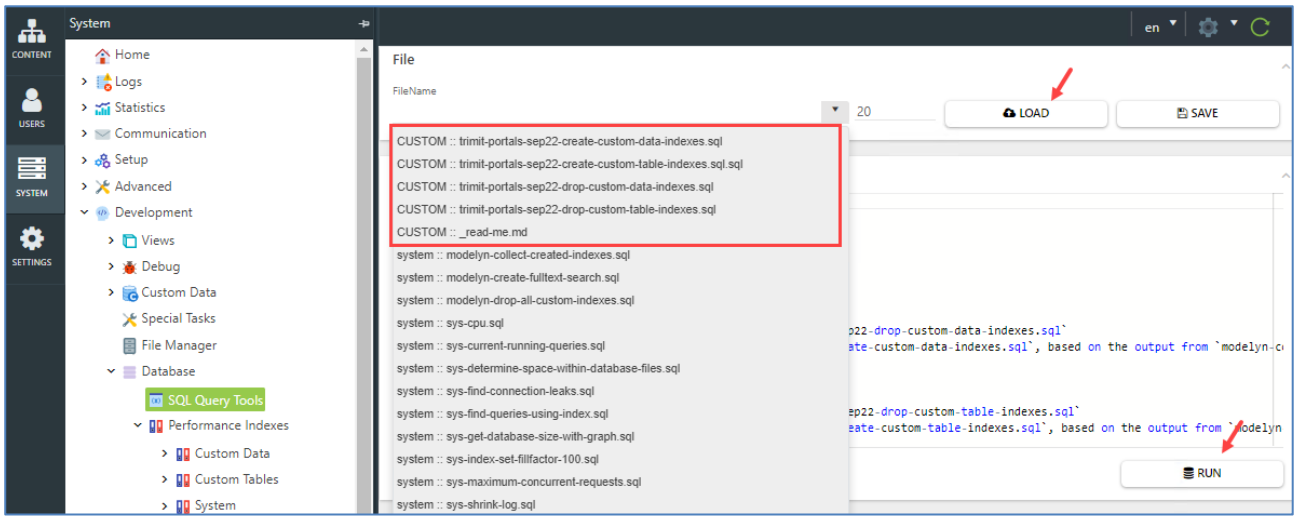
PERFORMANCE INDEXES

IMPORTANT. Make maintenance plan to create, rebuild or reorganize indexes to improve the database performance. Use SQL Server Management Studio tools to maintain Modelyn database.

You can also use internal Modelyn indexing which is described below.
Modelyn provides suggestions for indexes based upon site activity. You can create performance indexes in Modelyn by following the steps below.

APPLY DEFAULT INDEXES

Go to *Modelyn Admin -> System -> Development -> Database -> SQL Querry Tools.*
In the File Name field, File section, select **CUSTOM::_read-me.md** from the drop down. Then click Load and then click Run. This will open the instructions on how to drop and create default performance indexes for custom data and custom tables:



FULL TEXT SEARCH

Create Full Text Search by loading and running file name **system :: modelyn-create-fulltext-search.sql** – can be found in the FileName drop down on the image above.

INSTALLATION STEPS

This is a step by step instruction for advanced users on how to create and set up E-commerce website, set up TRIMIT BC ConnectPortal integrator and set up communication between them.

WEBSITE INSTALLATION

Installation order is as follows:

1. Create folder (without spaces in path) at i.e. ***C:\inetpub\cpo***
2. Copy contents of Package (***/Modelyn/Cpo***) folder over
3. Create app pool in IIS Manager with .NET 4.0, integrated
4. Remove application pool recycling
5. Add web site for app pool with name and path to folder from 1. (note: give it a host name, i.e. "*cpo*" and port 80)
6. Add dedicated domain user to Application pool Identity (in Advanced Settings for the application pool)
7. For local use: Insert host name into host file (*C:\Windows\System32\drivers\etc\hosts*)
8. Request *"*cpo*"* in browser, e.g. *http://cpo*
9. Follow instructions for creating and updating Modelyn DB (running script)
10. Select (or skip) external (BC) data setup
11. Now request *http://cpo/cpoadmin/* again and run start wizard
12. **In Modelyn Admin:**
    - Set up connections in Modelyn admin under *Admin/System/Setup/Connection* (check correctness of Initial Catalog, BC instance name and server port)
    - Synchronize Modelyn users with BC under *Users & Groups/Synch NAV*
    - Set up domains under *Admin/System/Setup/Domains.* Setup bindings in IIS Manager.
    - Under *Admin/System/Setup/Schedules/Config* insert the schedules (copy schedules from *Modelyn/CPO/_Cpo.config*). Adjust the paths to the documents
    - Check if schedules running properly under *Admin/Logs/Server/Schedule*
13. Setup cross domain URLs in PIR and in B2C soft admin Details page

BC SETUP

© TRIMIT A/S

14. **Setup ConnectPortal integrator in Business Central (*doc.: "White Paper - TRIMIT Portals Setups in Business Central")***
    - ✓ Import portal XML views into Business Central
    - ✓ Setup category structure
    - ✓ Setup customers newsletter (optional)

15. Relate Modelyn users in Trimit BC, relate to BC user and retrieve token if required
16. Resolve e-commerce instances (doc: "***White Paper – TRIMIT ConnectPortals instances***")
17. Setup Email Accounts in Business Central, email templates if needed
18. **User authentication:**
    - App pool identity: use dedicated domain user (make sure "inetpub" folder has IUSR user under Properties/Security. It has to include *Read* and *Write* permissions)
    - TRIMIT BC: setup MS Entra Application for connection with e-commerce
19. In **Soft admin**:
    - ✓ B2B webshops: Setup payment
    - ✓ B2B webshop: upload product images using PIR

DATA SYNCHRONIZATION

When Portal (SA and B2B) is connected to TRIMIT BC and running – it is needed to populate the Modelyn DB with data from TRIMIT (run data synchronization). To do this make the following steps:

1. Log in to portal as admin
2. Navigate to ***Setup / Update Shop*** on SA and B2B
3. Click **Update SA / Update B2B** etc.

PAYMENT SIMULATION SETUP

It is possible to setup payment simulation in B2B webshops, so it is easy to test the payment confirmation. In order to setup this – log in to PIR, enable dock Tasks and go to Payment management, set Payment method to Simulation and click Update. Set **Status** to *Live* when the web site goes live.

PERFORMANCE ISSUES

These are the steps to consider when your TRIMIT e-commerce installation has performance issues:

- Make sure hardware is up to date (read HW requirements)
- Make sure the database indexes are maintained
- Disable all the customizations and see if performance problems persist
- Disable eventual local Windows Server Update Server and run a full windows update, including all SQL updates and verify there is a latest .NET framework
- Install the latest SQL Express Server (latest version) alongside the existing SQL Server and copy the e-commerce databeses over
- Move e-commerce to another physical server

© TRIMIT A/S

- If performance is the same then send us (TRIMIT) your TRIMIT Business Central and E-commerce databases and we will try running them on our server environment.

FURTHER READING

Here are the documents related to the setup.

1. ***White Paper – Portals Product Information Repository (PIR)***
   https://my.trimit.com/product/documentation/2018.html/White%20Paper%20-%20Portals%20Product%20Information%20Repository%20(PIR)%202018.pdf
2. ***White Paper – TRIMIT Portals Schedules***
   https://my.trimit.com/product/documentation/bc13r2.html/White%20Paper%20-%20TRIMIT%20Portals%20Schedules%20BC13%20R2.pdf
3. ***White Paper – TRIMIT E-Mail***
   https://my.trimit.com/product/documentation/24-1.html/White%20Paper%20-%20TRIMIT%20E-Mail%2024.1.pdf

© TRIMIT A/S