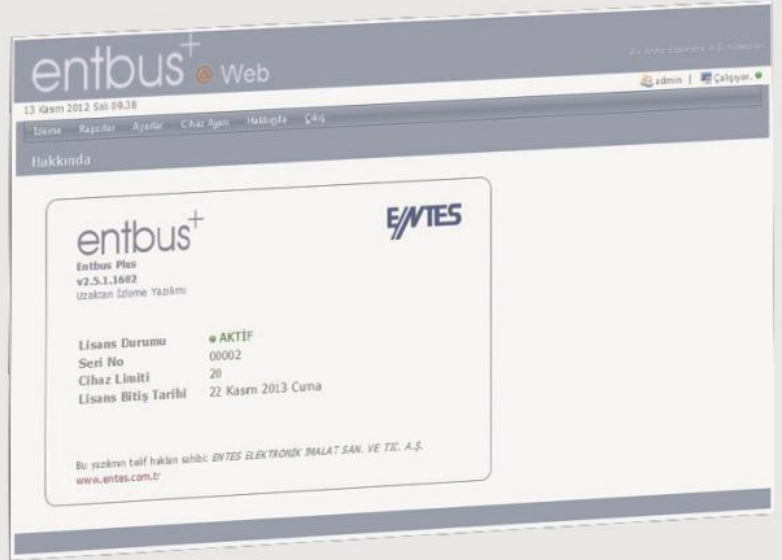


Entbus+

Installation Guide



Entbus+ Installation guide

İçindekiler

Introduction.....	2
Minimum System Requirements.....	3
Installation.....	4
EntServer:	14
Security:.....	16
General Settings:	16
Entbus+ Web Pre-installation.....	17
HOME PAGE.....	24

Introduction

Purpose and operation of EntBus+ software:

EntBus+ software consists of 2 different programs. One of these programs is **entserver.exe** which acts as a server and collects the data from the analyzers on the field via the modbus-tcp protocol.

Entserver program is installed as a Windows Service Application and runs automatically at startup.

The other program is **tm_izleme.exe** which runs linked to the **entserver** program displays the data collected from the analyzers on the field on the screen, contains user interfaces like reporting, configuration, mimic schematics.

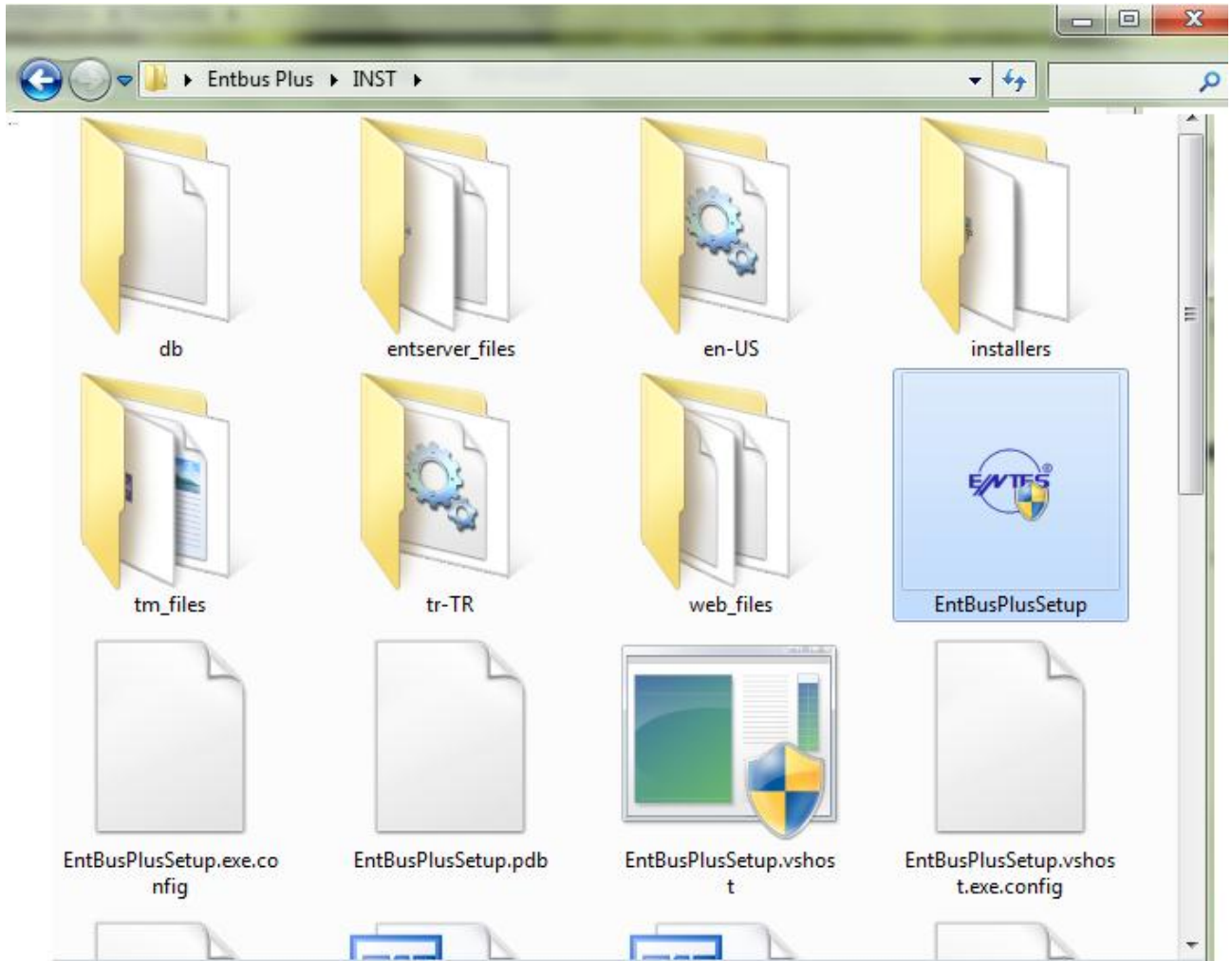
These two programs communicate with each other using the client-server architecture. They supply the user with instantaneous or retroactive data of the analyzers on the field by providing necessary data organization. Entserver server application can serve up to 32 **tm_izleme** client programs simultaneously.

The data collected from the field is stored in an MS SQL database. These data are compiled into monthly, daily or hourly reports (in MS Excel file format) according to user demands and presented to the user.

Minimum System Requirements

CPU	Intel Core 2 Duo 3.0 GHz.
RAM	4 GB
Operating System	Windows XP, Windows 7
Operating System Architecture	32 bit/64 bit
.Net Framework Version	4
HDD Space	200 GB (Per year)

Installation



EntBusPlusSetup.exe file should be started for the installation. Windows can ask Administrative permission. **“Allow”** option should be selected.



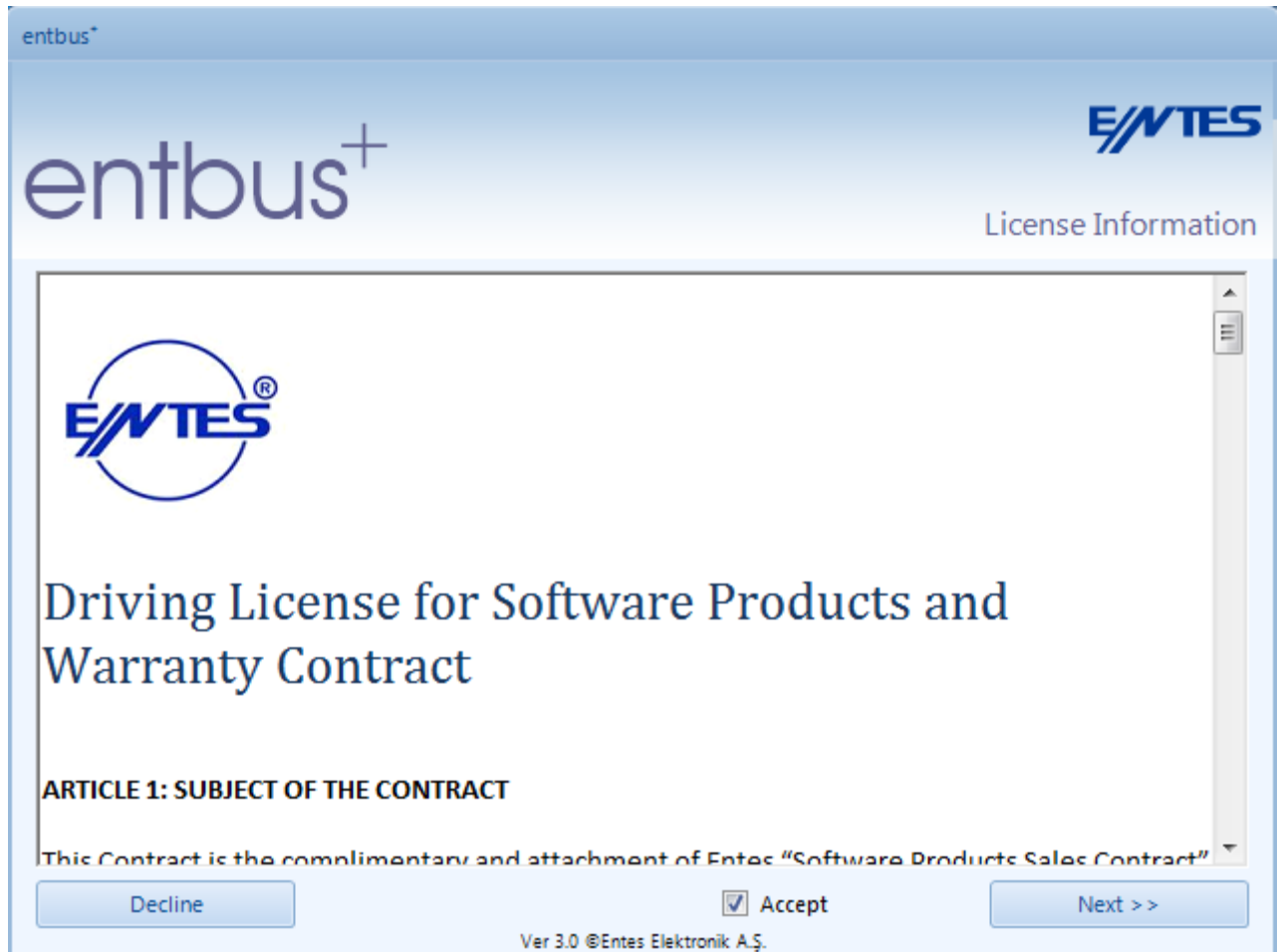
Language for the installation is selected first.



After English is selected as the installation language, a window like the one above appears. Click on the “**Next**” button and continue to the next window.



By clicking on the “**Accept**” checkbox on the License Information window, “**Next**” button is activated.



Click on the **“Next”** button and continue to the next window.

The code in the “**key.txt**” file in the CD is placed in the box shown below.

entbus⁺

E/NTES

Licence Code

Please enter the licence code on the CD.

Exit

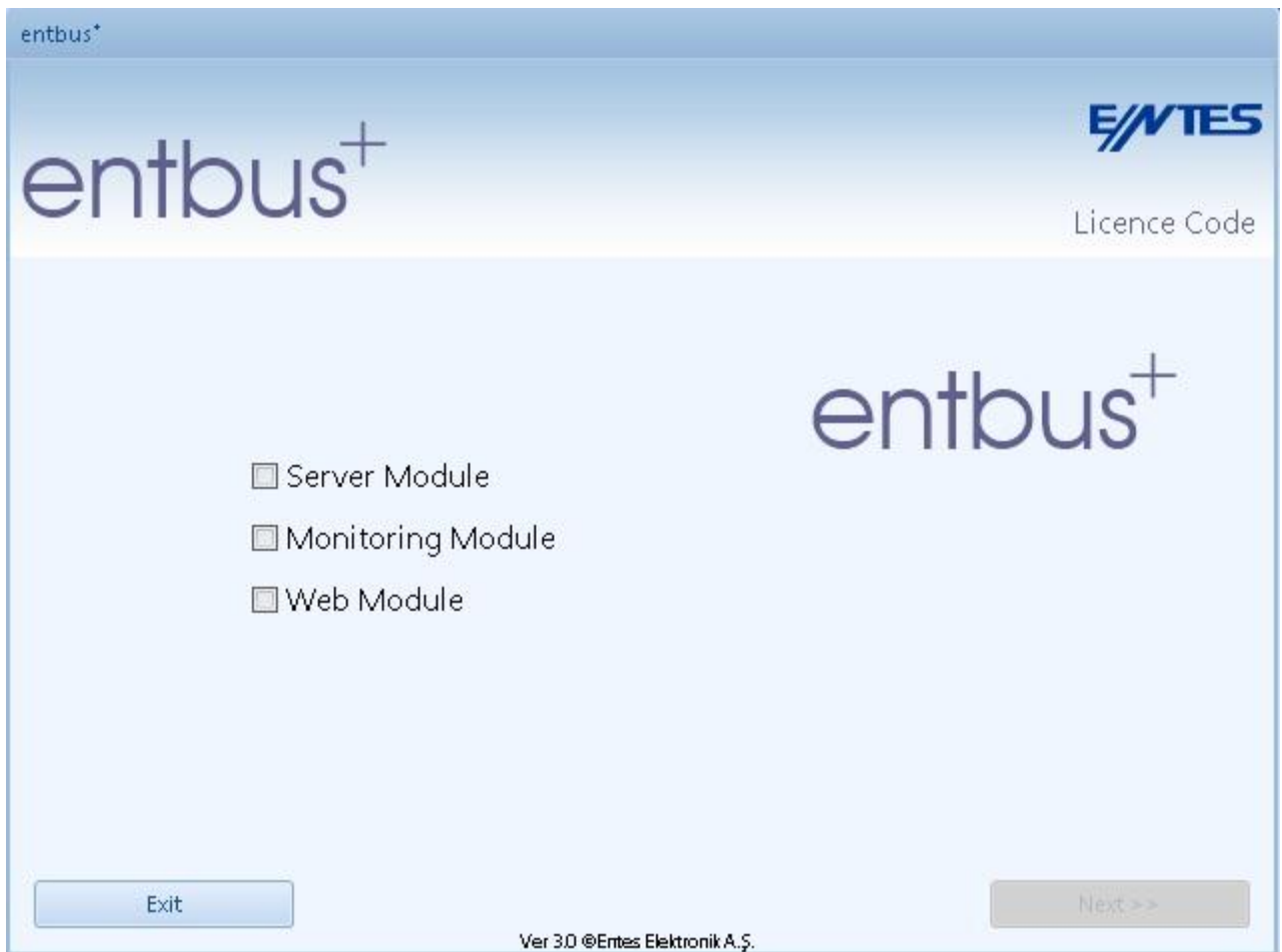
Next >>

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After the CD key is written, “**Next**” button is clicked.



Afterwards, a “**System Requirements**” window will appear. This window shows whether or not the properties of the computer, on which will the EntBus Plus will be installed, is compatible with the EntBus Plus software. If a feature of the computer is compatible with the software, a green check “ ✓ ” sign will be displayed on the corresponding line. If not, a red “ X ” sign will be displayed on the corresponding line. When the “**Next**” button is clicked even though all features of the computer are not compatible with the software, “This computer does not meet all the requirements. Some problems might arise during installation or while using the software. **“Do you still want to proceed?”** warning will be displayed. This warning window contains “**Yes**”, “**No**” and “**Cancel**” buttons. If “**No**” or “**Cancel**” is clicked, the setup will not proceed. If “**Yes**” button is clicked, the setup will proceed.



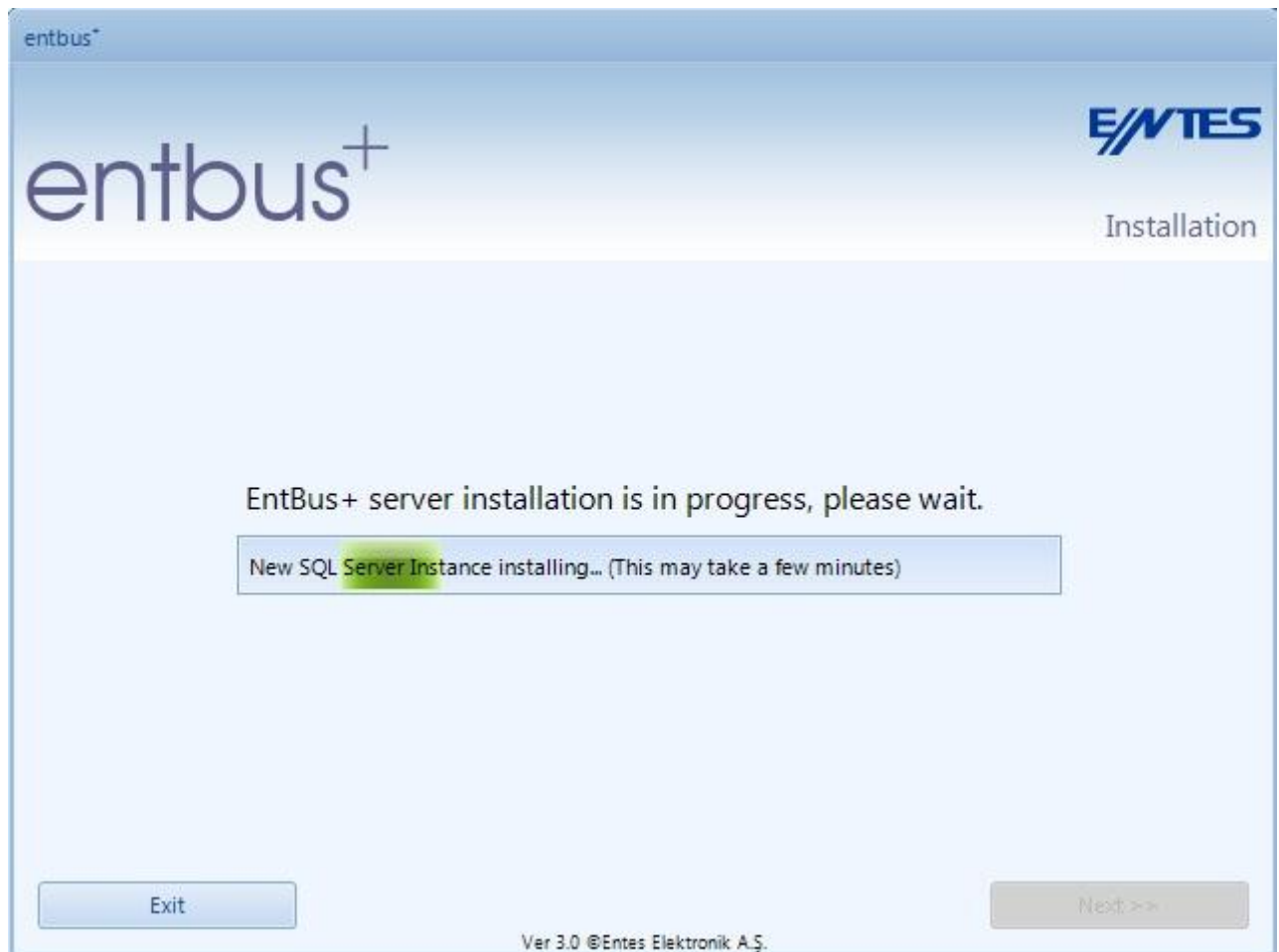
Server module is the module that is installed to the server PC to collect data from devices on the field through **Modbus-Tcp** protocol and write these data to the database.

Monitoring Module is the module that displays the data read from the devices on the field and that contains user interfaces such as reporting, device configuration, and mimic schema.

Web Module is the module that provides the measured data to the user via web.

(Please refer to page 14 for “Web Module” installation)

Desired module is selected and Continue is clicked on.



Wait for the Setup to finish.
Afterwards, click on the “**Continue**” button.

Welcome screen is displayed. When you finish the program setup, the following window will appear. If you select the first option, your computer will be restarted. If you select the second option, you will have to restart the computer manually.

Note: *The computer has to be restarted after the setup has finished. Otherwise, the program may not function correctly.*

Finish

entbus⁺



Installation complete.

The computer must be restarted for the system to function properly. Do you wish to restart now?

- Yes, restart my computer (WARNING: All running programs will be closed and all unsaved data will be lost!)
- No, I will restart my computer later

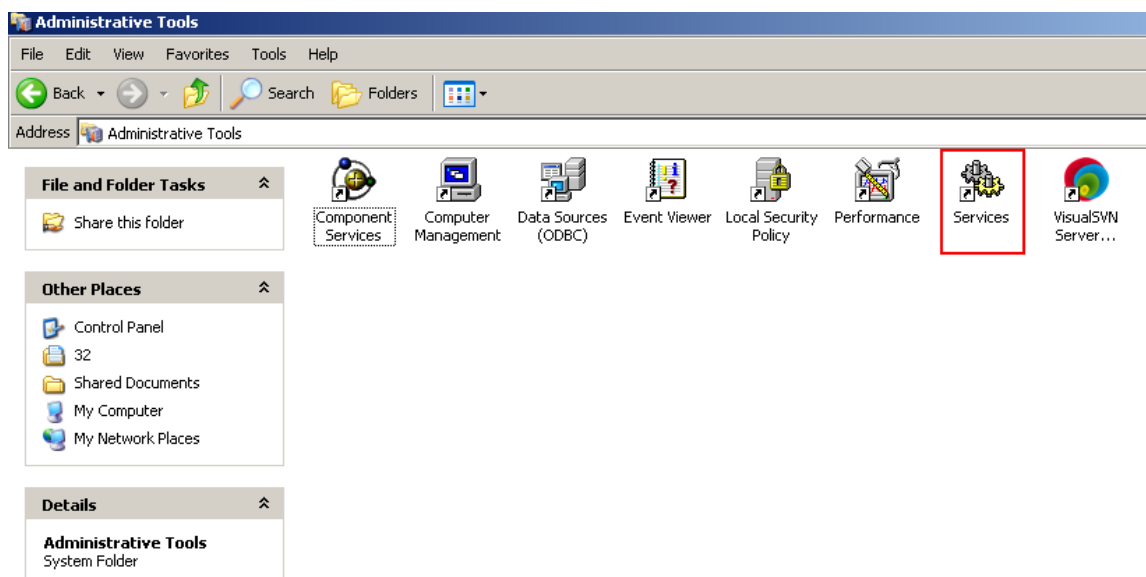
Exit

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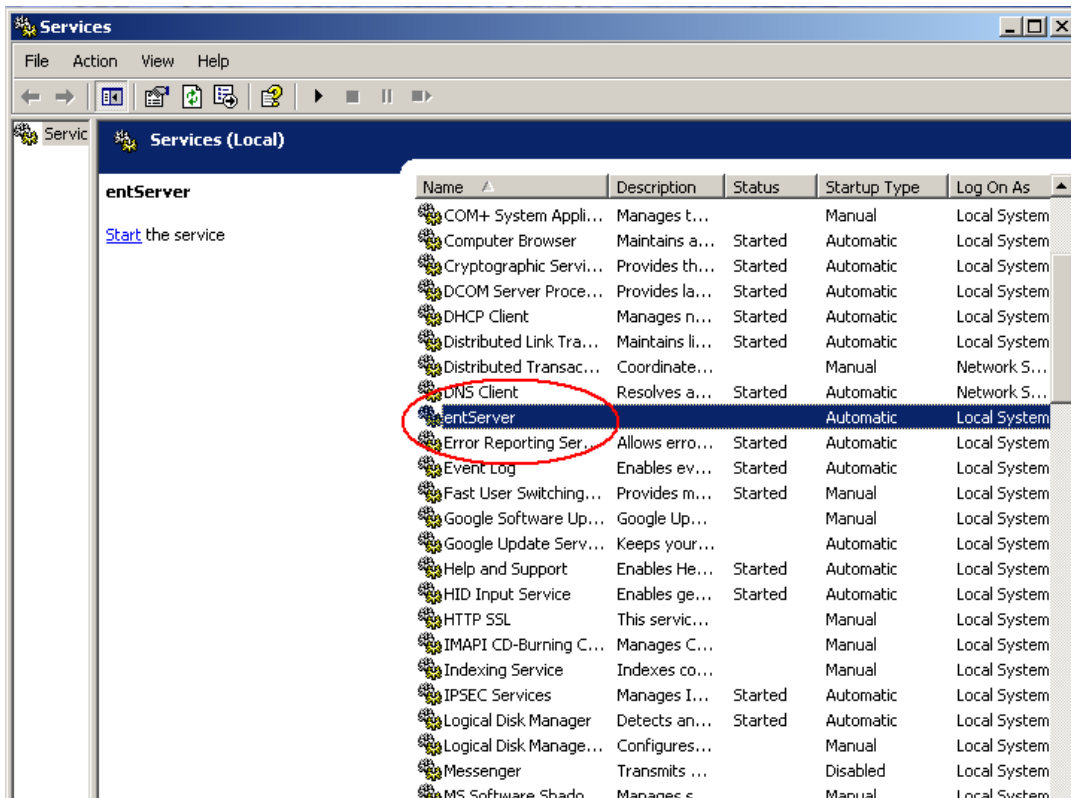
EntServer:

EntServer application is a Windows Service application and it is started/stopped by using the Windows Service Manager. When you shut down and turn on your computer, the entserver application will start automatically.

To stop/start EntServer, you have to follow **Control Panel >> Administrative Tools >> Services** path. You will see a screen like the following one.



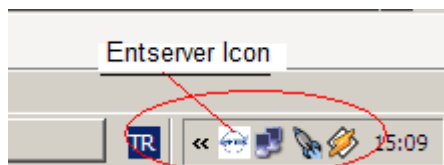
When you double click the **Services** icon in the folder shown above, **Windows Services Manager** will start. You can stop/start the entserver application by using this Services Manager.



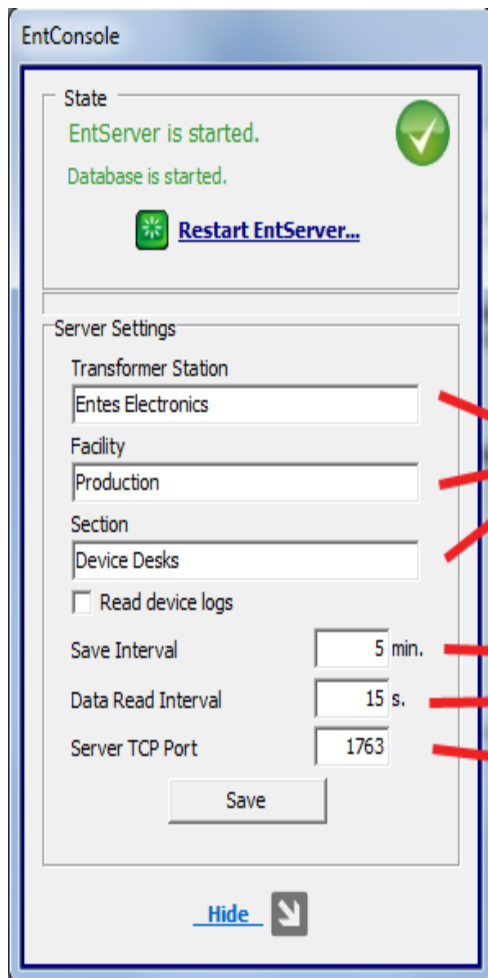
EntServer receives all data measured by the communicable analyzers and saves them to its database.

EntServer serves up to 32 simultaneously connected **tmizleme** (client) applications.

These are services like instantaneous measurement **data**, **alarm data**, **retroactive reports** (in XLS file format).



When you click on the icon shown in the taskbar screenshot above, the console screen shown in the screenshot below will be opened. The functions of the components on the program window are explained on the screenshot below.



The information in these text fields will show up in the facility report header.

This is the Time Interval for the saving of the filed data.

This is the data refresh rate for the analyzers in Online Monitoring.

This is the port number for the remote monitoring connection. TMIzleme program will communicate using this port.

When the program runs for the first time, Server Settings information can be empty. Fill these fields accordingly. For the changed settings to take effect, you have to stop and start again the entserver under “**Services**” Manager.

Security:

When accessing to the computer on which the Entbus+ is installed from the computer on which the Entbus+ Monitoring Module is installed, problems may occur. In order to overcome this issue, a rule which opens the related ports must be defined in the firewall of the computer on which the Server Module is installed.

General Settings:

The EntServer module must be installed and running before you define the analyzers on the system. To ensure this, review the previous topic title of this document.

Before the EntBus Plus program starts to run, the Decimal Symbol must be set as dot (.) and the Digit Grouping Symbol must be set as comma (,) in the Regional and **Language Options** under **Windows \ Control Panel**.

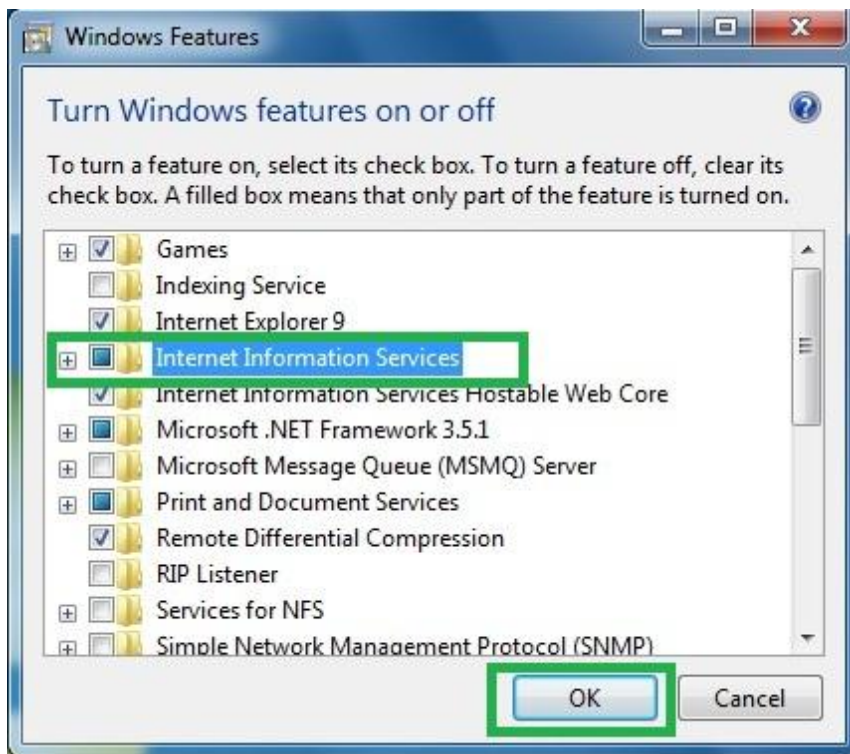
Please disregard the following paragraph if you did not select Monitoring Module during installation.

EntBus Plus creates a desktop icon and can be started from there and also from **C:\TMizleme\tm_izleme.exe**. When the EntBus Plus module is started for the first time; you will see a screen like the one in the screenshot below. The IP addresses in the Server List are addresses that come with the default settings. If no server is defined, the list will be empty like the one in the screenshot below. The servers that you will define will show up on this list the next time that you start the program.

Entbus+ Web Pre-installation

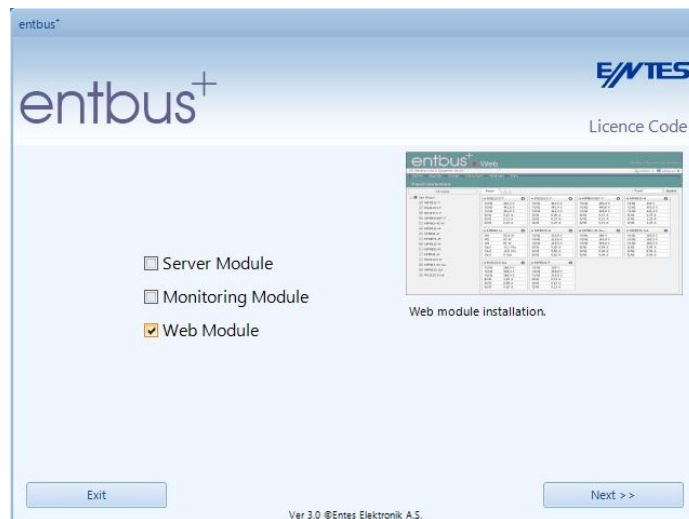
In order for you to run ASP files on your computer, **IIS** must be installed. IIS comes with the Operating System but isn't installed by default. For installation, following steps must be followed.

Internet Information Services box must be selected under **Control Panel >> Programs and Features >> Add/Remove Windows Components**. If not, select it and click on OK.





Warnings on the opened window must be read. If IIS is not installed on the computer, cancel the setup by clicking on “**No**” button and install IIS by following the steps at the start of this manual and run the setup for EntBus+ again. If IIS is installed on the computer, click on “**Yes**” button and go to the next step.



Web module is selected and Next is clicked on.



Afterwards, a “**System Requirements**” window will appear.



Wait for the Setup to finish.
Afterwards, click on the “**Continue**” button.



Close the setup program by clicking on Exit button.

After the Web Monitoring installation is finished, enter <http://localhost> to the address bar of your web browser (Google Chrome, Mozilla Firefox, Microsoft Internet Explorer, Apple Safari) and you should see EntBus+ web interface page.

Note: *If server error page is encountered instead of the EntBus+ web interface page, apply the following steps:*

- Enter IIS Manager >> Application Pools >> DefaultAppPool on the PC which has web monitoring installed,
- Assign the .NET Framework version of DefaultAppPool as 4.0.

Connections

- HINCALTEST-PC (HincalTest-PC)
- Application Pools
- Sites

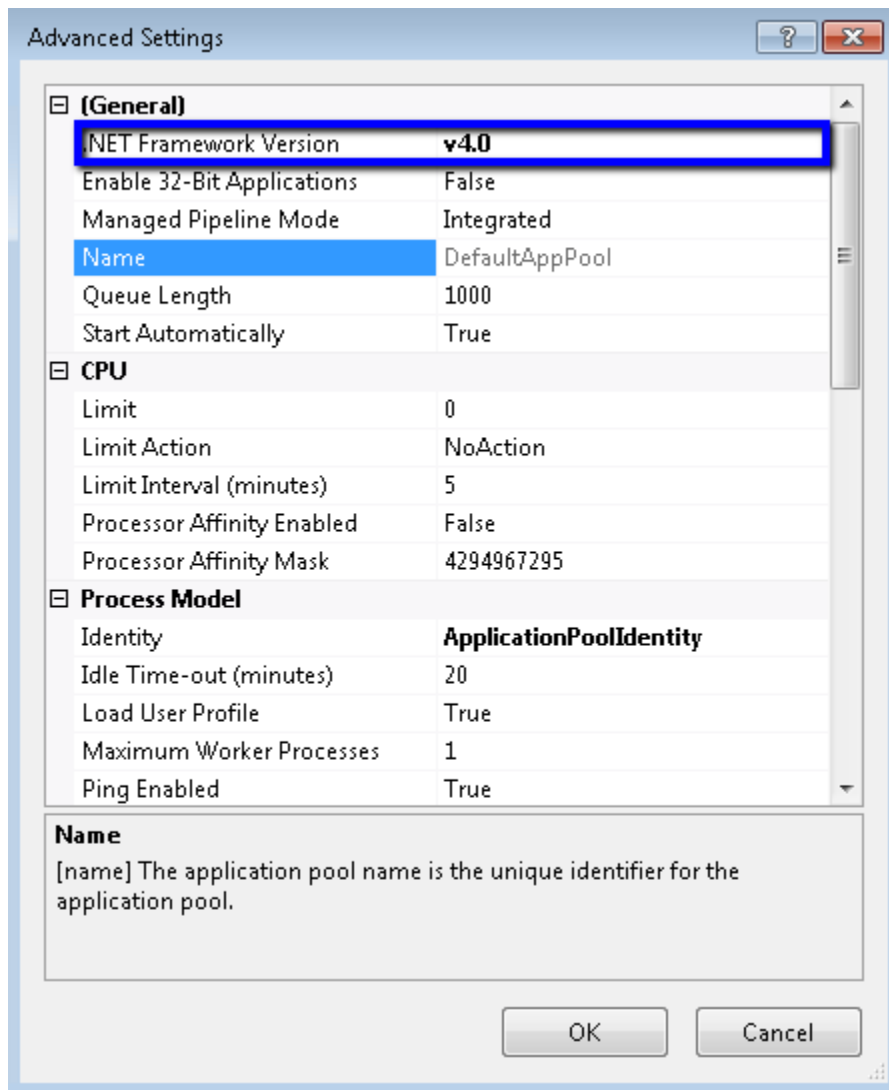
Application Pools

This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications, and provide isolation among different applications.

Filter: [v] Go [v] Show All Group by: No Grouping [v]

Name	Status	.NET Framework Version	Managed Pipel...	Identity	Applications
ASP.NET v4.0	Started	v4.0	Integrated	ApplicationPoolId...	0
ASP.NET v4.0 Classic	Started	v4.0	Classic	ApplicationPoolId...	0
Classic .NET AppPool	Started	v4.0	Classic	ApplicationPoolId...	0
DefaultAppPool	Start...		Integrated	ApplicationPoolId...	1

- Add Application Pool...
- Set Application Pool Defaults...
- Start
- Stop
- Recycle...
- Basic Settings...
- Recycling...
- Advanced Settings...**
- Rename
- Remove
- View Applications
- Help
- Online Help

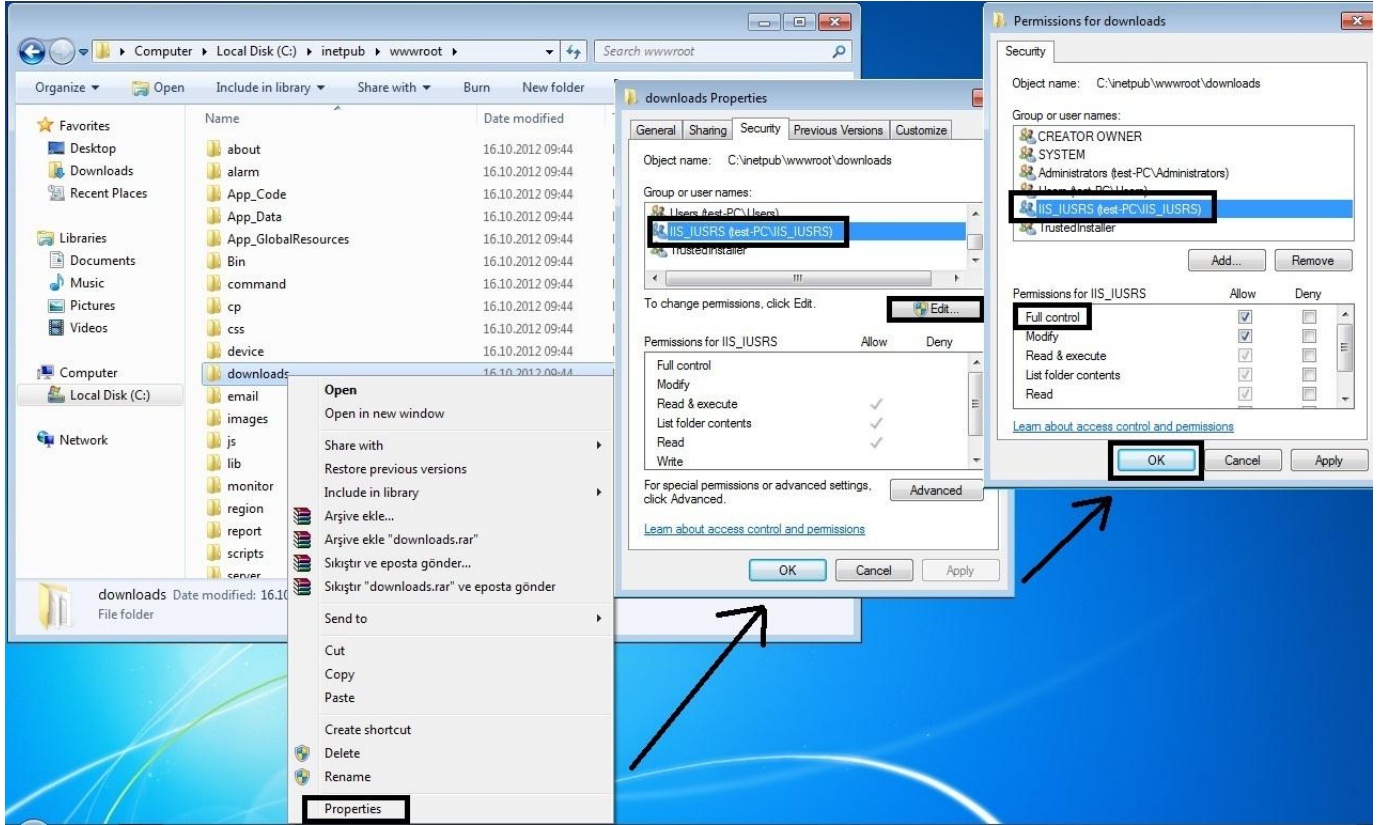


Afterwards, access the main page by entering <http://localhost> to the address bar of your preferred web browser.

If the following EntBus+ home page is not displayed, refresh the page by pressing Ctrl and F5 keys together. If problems with character displaying occur, set the character coding in the browser to Unicode (UTF-8).

Note: Additionally; after the installation you must right click on the **C:\inetpub\wwwroot\downloads folder**, click on **Properties**, select **IIS_IUSRS** under Security section on the displayed window, click on **Edit**, select **Full Control** and finally click on OK.

Expression in the picture below;



entbus⁺

Web Interface

Dil / Language  English ▼

User Login

Username *

Password *

 [Forgot my password!](#)



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The User Name: admin
Password: 1234

Information must be entered on the first launch. In case the user forgets the password, “**Forgot my password**” link is used.