

# THOR

Web Control Feature Pack

**User Manual** 

Version 3.5

## **Network Electronics ASA**

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# **Revision history**

Current revision of this document is the uppermost in the table below.

Revision	Replaces	Date	Change description	
3.5	3.0	27/06/05	Updated to reflect SW release 3.5	
3.0	2.9	06/12/04	Updated to reflect SW release 3.0	
2.9	2.0	02/03/04	Updated to reflect SW release 2.9	
2.0	1.95	01/06/02	Updated to reflect SW release 2.00	
1.95	1	05/04/02	Updated to reflect SW release 1.95	
1	0	25/09/01	Updated and expanded to include User Guidance	
0	-	02/02/01	Initial Revision	

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# 1 Introduction

This document describes how to install and use *Web Control* of the THOR – Router Management System, Version 3.5.

## Web Control

- Gives you access to your Network Router(s) from a PC with any Operating System, such as Linux, Mac, UNIX and Windows.
- Execute router salvos from any web browser.

## 2 Installation

If you received this Feature Pack together with your THOR Main Package, you may skip this Chapter, because then you install both Main Package and Feature Pack(s) all together in one operation.

However, if you purchased this Feature Pack separately, installation of this Feature Pack is simply a matter of entering the correct Product Key in the Product Key Manager of THOR.

Each Feature Pack purchased separately comes with a unique *Product Key*. In order to add this to your existing system, use the *Product Key Manager* that you will find under the *Help* pull down menu. The following view appears:

🏶 THOR - Product Key Manager	
Name Jan Georg Skuggedal Company Network Electronics ASA Product Key Xetwork Electronics ASA Product Key Xetwork Electronics ASA Product Key Add Installed Feature Pack Keys Delete	Software Status           Component         Status           THOR Basic Edition         ACTIVE           Configurable Control GUI         NOT ACTIVE           Salvo Scheduler         NOT ACTIVE           Veb Control         NOT ACTIVE           LAN Multiser Interface         NOT ACTIVE           Ethernet Interface         NOT ACTIVE           Side and the state of VikinX Compact         NOT ACTIVE           Advanced Remote Control         NOT ACTIVE
	www.network-electronics.com/thor
	OK Cancel Apply

*Figure 1: Product Key Manager* 

In this view, just add the new *Feature Pack Product Key*, and press *Add*. It is also possible to select an installed Feature Pack, and remove it, by pressing *Delete*.

The number of active Feature Packs is listed in the Software Status view.

Press Done when finished.

## **3 Web Control**

Thor Web Salvo Control is a feature for controlling Network Routers over an internet/intranet, on any Web browser. This feature will give you access to Network Router on any OS system, such as Linux, Mac, UNIX and Windows.



*Figure 2: Web control of VikinX routers* 

You need one Windows computer, with Windows Internet Information Services (IIS) serving as Web Server and THOR Router Management system installed.

## 3.1 Setting up the THOR Web Server

Please follow these steps to set up the THOR Web Server:

- 1. The THOR Web Server must be installed on a computer with Windows 2000 or Windows XP Home/Prof.
- 2. Install the Windows Internet Information Services (IIS) version 4.0 with FrontPage 2000 Server Extensions. This software is included in the Windows installation program. See further details in Chapter 4.
- Install the .NET Framework Redistributable version 1.0. This is included in the THOR installation CD-ROM or may be downloaded from <u>http://www.network-electronics.com/download/dotNETv1.0.exe</u>. See further details in Chapter 5.
- 4. Reboot the computer.
- 5. Install THOR on the computer and set up the system, as specified in the THOR Quick Start Guide and THOR Main Package User Manual.

## http://www.network-electronics.com/thor

- Install THOR Web Control feature pack on the computer. This is included in the THOR installation CD-ROM or may be downloaded from <u>http://www.network-electronics.com/download/FP11.zip</u> See further details in Chapter 6.
- 7. Change the ASPNET user to be an administrator user. See Figure 3:
- 8. Reboot the computer.
- 9. Configure Salvos to be included in the web control interface. See Figure 4:
- 10. Open the web page, see chapter 3.2, for controlling salvos.

**Note:** THOR Web Control is NOT compatible with the .NET Framework version 1.1.

Open the User Accounts in Control Panel and change the ASPNET user to be an administrator.

User Accounts	? 🗙 THOR4VASPNET Properties ? 🗙
Users Advanced	General Group Membership
Use the list below to grant or deny users access to your computer, and to change passwords and other settings.	What level of access do you want to grant this user?
Users for this computer:	Standard user (Power Users Group)
User Name Domain Group	Users can change many system settings and install programs that don't affect Windows system files.
Administrator THOR4 Administrators	Restricted user     (Users Group)
IUSR_THOR4 THOR4 Guests Gigs DOMAIN1 Administrators	Users can operate the computer and save documents, but cannot install programs or change system settings.
Sthor DOMAINI Administrators	Other: Administrators
Add Remove Properti	Administrators have complete and unrestricted access to the computer/domain
Password for ASPNET	
To change the password for ASPNET, click Reset Password Reset Password	
OK Cancel Ap	oly OK Cancel Apply

Figure 3: Configure ASPNET user as an administrator

Modify the salvo to include it in the Web Control. Salvos are modified in the Salvo Executer. Refer to THOR main user manual for more information.

1. Select Router	2. Select Sc	urce	3. Select Destina	tion
VIDEU LS  ✓ AUDIOLS Follow  ✓ Include in WEB interfac  Include in THUH popup  Include in Salvo Group  Studio 4  Studio 5  Main Control	Ch 001 002 002 003 004 005 006 007 008	Mmemories SRC 001 SRC 002 SRC 003 SRC 004 SRC 005 SRC 005 SRC 005 SRC 007 SRC 007 SRC 008	Ch Mmer 001 DES' 002 DES' 003 DES' 004 DES' 005 DES' 005 DES' 007 DES' 008 DES'	nories T 001 T 002 T 003 T 004 T 004 T 005 T 005 T 006 T 007 T 008
Salvo Description Salvo Commands Router Name VIDED L4 VIDED L5	Src Mnemonics SRC 002 SRC 002	Chan Dest Mnemonic 2 DEST 007 2 DEST 007	s Chan Source 7 7	/Delete Crosspoint
				Add Delete

*Figure 4: Include the salvo in the Web Control* 

## 3.2 Controlling with THOR Web Salvo

You may now open the Web page by typing <u>http://localhost/webthor</u>, or from a remote computer by replacing "localhost" with the hostname or IP address of the web server.

🗿 Network - THOR	WEB SALVOS - Microso	ít Internet Explorer		
File Edit View F	avorites Tools Help			A.
G Back 🔹 🕥	- 🖹 🗟 🏠 🔎	Search 🤺 Favorites 🌒 Media 🧭	🔊 · 🍓 🔜 🦓	
Address 🕘 http://10.	10.10.63/webthor/thorsalvo.	aspx		🗸 🄁 Go 🛛 Links 🎽
netv	vork	THOR WEB SALV	<u>/os</u>	
			Execute	Refresh Status
		1		
Select	<u>Name</u>	Description	Status	
Select	ltol all.nsl	1 to 1 all levels	NOT A	CTIVE
Select	2to1 all.nsl	2 to 1 all levels	NOT A	CTIVE
Select	lev5 diag +1.nsl	Level5 Diagonal +1	NOT A	CTIVE
Select	lev5 diag.nsl	Level5 Diagonal	NOT A	CTIVE
Select	s1.nsl		NOT A	CTIVE
Select	s2.nsl	TEST NW	NOT A	CTIVE
		1		
ð.				🌒 Internet

Figure 5: THOR Web Control view

All salvos defined to be included in the Web Interface are shown here. Please see the THOR Main Package User Manual for further details.

Use the following steps to execute the web salvos:

- Press *Select* to choose one salvo. The selected salvo is shown in the *Selected Salvo* field.
- Press Execute to execute the salvo
- Status shows if the salvo is active

Use the *Refresh Status* button to refresh status on all salvos.

## 4 Install Internet Information Services (IIS)

## Step 1: Start installation

Open the Control Panel on your computer and select *Add or Remove Programs*. See Figure 6:



Figure 6: Control Panel

Select Add/Remove Windows Components. See Figure 7:

🐻 Add or Re	nove Programs			
5	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	*
Change or Remove Programs	Adobe Download Manager 2.0 (Remove Only) Click here for support information.		Used	<u>rarely</u>
<b>S</b>	To remove this program from your computer, click Remo		Last Used On 2	27.06.2005 Remove
Add <u>N</u> ew Programs	🚰 Adobe Reader 7.0		Size	61,48MB
5	弱 C-Media WDM Audio Driver 弱 HighMAT Extension to Microsoft Windows XP CD Writing	Wizard	Size	2,13MB
Add/Remove <u>W</u> indows Components	闘 Matrox Graphics Software (remove only) 闘 Microsoft .NET Framework (English) v1.0.3705			
	😽 Microsoft .NET Framework 1.0 Hotfix (KB886906)			
	🔂 Network - System Configurator		Size	53,64MB
Set Program Access and	Ø Norman Virus Control		Size	7,30MB
Defaults	PowerQuest Drive Image 7.0		Size	66,94MB
	Ng PrintKey2000		Size	0,99MB
	📳 Windows Installer 3.1 (KB893803)			

Figure 7: Add/Remove Programs menu



#### **Step 2: Internet Information Service**

A window is shown with all installed Windows components.

Windows Components Wizard	$\overline{\mathbf{X}}$
Windows Components You can add or remove components of Windows XP.	t
To add or remove a component, click the checkbox. A shaded part of the component will be installed. To see what's included i Details.	box means that only n a component, click
	0.0110
Indexing Service	U.U MB 🔼
Internet Explorer	0.0 MB 💼
🗹 🍋 Internet Information Services (IIS)	13.5 MB
Management and Monitoring Tools	2.0 MB
Message Queuing	ламв 💌
Description: Includes Web and FTP support, along with support transactions, Active Server Pages, and database Total disk space required: 35.4 MB Space available on disk: 26175.4 MB	t for FrontPage, connections. Details
< Back	Next > Cancel

Figure 8: IIS selection

In the component list select Internet Information Service (IIS).

Internet Information Services (IIS)	×	
To add or remove a component, click the check box. A shaded box means that of the component will be installed. To see what's included in a component, click Subcomponents of Internet Information Services (IIS):	only part Details.	
Common Files 10	MB 🔼	
Commentation	MB	
✓ Control Control (CTP) Service	MB	
✓ Ø FrontPage 2000 Server Extensions 4.3	MB	
✓ 1 2 Internet Information Services Spap-In 13 M		
SMTP Service 11	MB	
✓ A World Wide Web Service	мв	
Description: Enables authoring and administration of websites with Microsoft FrontPage and Visual InterDev Total disk space required: 39.7 MB	taile	
Space available on disk: 26175.4 MB	adiis	
ОК Са	ancel	

Figure 9: IIS Details

Select the Details button and enable the FrontPage 2000 Server Extension. Select next to proceed. Windows will start installing the IIS. *You must have your Windows-OS CD available*.

Windows Components Wizard	X
Configuring Components Setup is making the configuration changes you requested.	
Please wait while Setup configures the components. This may take several minutes, depending on the components selected.	
Status: Examining installed files	
< Back Next > Cancel	

Figure 10: Installing the ISS



*Figure 11: Finished updating Windows.* 

# 5 Install .NET Framework Redistributable version 1.0

The .NET Framework may be obtained according to information provided in Step 3 of Chapter 3.1. When you open the installation program the following window appears:



Figure 12: Install the .NET Framework

Press Yes to continue. A welcome page is shown. Press Next to continue.

🕏 Microsoft .NET Framework (English) Setup		
<b>11</b> - 21	.NET Framework	
	Welcome to the .NET Framework Setup wizard, which will guide you through the installation process.	
1.3		
<b>.</b>		
	< <u>B</u> ack Next > Cancel	

Figure 13: .NET Framework Welcome Page

Press Next to install the .NET Framework.

The following dialog is shown when the .NET Framework is installed:



*Figure 14: Installing the .NET Framework* 

The following dialog is shown when the installation is finished:

🖟 Microsoft .NET Framework (English) Setup 🛛 🗖 🕅
Installation of Microsoft .NET Framework (English) is complete.

*Figure 15:* Complete installation of .NET Framework

It is recommended to restart the computer after the installation of the .NET Framework.

# 6 Install Web Salvo Control Interface

The following window appears when you open the Web Salvo Control Interface:



Figure 16: FP11 Thor Web Solution setup

Press Next to continue.

🖟 FP11: Thor Web Solution	
Select Installation Address	
The installer will install FP11: Thor Web Solution to the following virtual direc	story.
To install to this virtual directory, click "Next". To install to a different virtual	directory, enter it below.
<u>V</u> irtual directory: WebThor <u>Port:</u>  80	Disk Cost
Cancel < Back	Next >

Figure 17: Select Installation Address

It is not recommended to change the settings in this dialog. The following settings are selectable in the dialog:

- Virtual directory
  - The virtual directory THOR Web Solution uses to display the Web Salvos.
- Port

Select the port to use. Default and recommended is 80.

Press Next to continue.





Figure 18: Start the installation

Press Next to start the installation of the THOR Web Solution.

The following dialog is shown during the installation:

🥵 FP11: Thor Web Solution	
Installing FP11: Thor Web Solution	
FP11: Thor Web Solution is being installed.	
Please wait	
Cancel < Back	Next >

Figure 19: Installing the THOR Web Solution

The following dialog is shown when the installation is finished.





It is recommended to restart the computer after the installation.