

eSOM/9263, DNP/9265 Sun VirtualBox on WinXP

microHowTo



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CONTENT

1	INT 1.1 1.2 1.3	RODUCTION Conventions Blockdiagram DNP/9265 Blockdiagram eSOM/9263	3 3 3
2	INS	TALLING THE SUN VIRTUALBOX	4
3	IMP	PORTING THE VIRTUALBOX IMAGE	5
4	ADE	DITIONAL CONFIGURATION	6
5	RUN	NNING THE VIRTUAL MACHINE	8
6	HEL	_PFUL LITERATURE	10
C	ONTA	СТ	10
D	OCUN	IENT HISTORY	10



1 INTRODUCTION

This document describes how to install, import, configure and run the Sun VirtualBox on a Windows XP system.

1.1 Conventions

Convention	Usage
bold	Important terms, menu items, buttons
monospace	Pathnames, program code, command lines

Table 1: Conventions used in this Document

1.2 Blockdiagram DNP/9265

The DNP/9265 and the eSOM/9263 are very similar devices. Both are based on the Atmel AT91SAM9263 MCU and an embedded Linux operating system with kernel version 2.6. For application development you can use the same GNU ARM cross tool chain. The embedded Linux run time environment is identical. In other words: you can run the same binaries.



Figure 1: Blockdiagram DNP/9265

1.3 Blockdiagram eSOM/9263



Figure 2: Blockdiagram eSOM/9263



2 INSTALLING THE SUN VIRTUALBOX

- 1. Open the directory **VirtualBox** from the DVD, start the VirtualBox setup **Virtual-Box-3.0.10-54097-Win.exe** and follow the instructions.
- 2. Skip the first dialog box with a click on **Next** and accept the end user license with a click on **I accept**.
- 3. Skip the next two dialogs with a click on Next.
- 4. Click Yes in the next dialog to proceed with the installation.

👹 Sun ¥irtualBox		×
	Warning: Network Interfaces Installing the Sun VirtualBox Networking feature will reset your network connection and temporarily disconnect you from the network. Proceed with installation now?	
Version 3.0.10		

Figure 3: Proceeding the installation

- 5. Allow the installation of not signed software. The installation runs automatically.
- 6. Click on **Finish** and start the VirtualBox.



3 IMPORTING THE VIRTUALBOX IMAGE

- 1. Start VirtualBox, if not already running, with the Windows start menu.
- 2. Open File > Appliance import.
- 3. Choose the eSOM9263-developer-environment.ovf or the DNP/9265-developerenvironment.ovf file from the DVD directory VirtualDiscImage and click on Next.

💱 Appliance importie	ren	? ×
Appliance impo	ortieren	
	Dieser Assistent begleitet Sie beim Import einer Appliance.	
	Wählen Sie Weiter , um auf die nächste Seite zu gelangen und Zurück , um auf vorherige Seite zurückzukehren.	die
	Für den Import einer Appliance müssen Sie zuerst eine Datei mit der Beschreibun dieser Appliance auswählen. VirtualBox unterstützt im Moment das Open Virtualization Format (OVF). Wählen Sie die zu importierende Datei aus:	Ig
q	Auswählen	ovf
	R	
	Zurück Weiter > Abbrecht	en

Figure 4: Importing a virtual disc image

4. In the next dialog box click on Import.



4 ADDITIONAL CONFIGURATION

- 1. Start VirtualBox, if not already running, with the Windows start menu.
- 2. Select the imported image on the left side and click on the Edit symbol.
- 3. Select CD/DVD-ROM and setup the CD-ROM device.

🗱 e50M9263-developer-environment - Ändern						
📃 Allger	nein	CD/DVD-ROM				
Dyste	m ge	CD/DVD-Laufwerk einbinden				
😂 Festp	latten	CD/DVD-Laufwerk des Hosts	-			
O CD/D	VD-ROM	E:				
Diskel	te	Passthrough aktivieren				
🖗 Audio		🔘 ISO-Abbild				
🗗 Netzv	verk	debian-40r8-i386-netinst.iso (160,79 MB)				
🔊 Seriel	le Schnittstellen	·				
🥖 USB						
📄 Geme	insame Ordner					
		Wählen Sie eine Kategorie aus der Liste auf der linken Seite und fahren Sie n der Maus über eine Einstellung, um mehr Informationen zu erhalten.	nit			
		OK Abbrechen Hilf	e			

Figure 5: Selecting the shared folder



4. Select **Shared folders** and add (create and choose) a shared folder from your host system. The shared folder function is a nice way to share files between host and guest system. To bind this folder into the guest system, you need to mount it like:

mount	-t	vboxsf	<shared< th=""><th>folder</th><th>name></th><th>/<folder< th=""><th>to</th><th>mount</th><th>no></th></folder<></th></shared<>	folder	name>	/ <folder< th=""><th>to</th><th>mount</th><th>no></th></folder<>	to	mount	no>
mount	-t	vboxsf	share /r	nnt					

🔅 eSOM9263-develope	r-environment - Ä	indern	? ×
📃 Allgemein	Gemeinsam	ne Ordner	
🔝 System			
📃 Anzeige	Name	Pfad	Zugriff 🗔
Sestplatten	⊡ Ordner der	virtuellen Maschine	
CD/DVD-ROM	silare	D; (share	
💾 Diskette			
De Audio			
Netzwerk			
Serielle Schnittstellen			
DSB			
Gemeinsame Ordner			
	I		
	Wählen Sie ein	e Kategorie aus der Liste auf der linke	en Seite und fahren Sie mit
	der Maus über	eine Einstellung, um mehr Informatio.	nen zu erhalten.
		ОК	Abbrechen Hilfe

Figure 6: Selecting the shared folder

5. Save the settings and close the dialog box with a click on **OK**.



5 RUNNING THE VIRTUAL MACHINE

- 1. Start VirtualBox, if not already running, with the Windows start menu.
- 2. Select the imported image on the left side and click on the **Start** symbol.



Figure 7: Starting the imported image

3. After the start you will see a login screen from the virtual Debian system. The login is possible with:

User: username: "user", password: "user"

Root: username: "root", password: "root"

When you pass the login you will see this desktop:



Figure 8: Desktop of virtual Debian system

Please Note: You can switch the guest system to full screen mode and back with **CTRL-RIGHT+F**. This combination only works with the right CTRL-button!



6 HELPFUL LITERATURE

- eSOM/9263 hardware reference manual
- DNP/9265 hardware reference manual

CONTACT

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