

QUAZERTM Automated Diamond Cutting System

SOFTWARE & UPGRADE INSTALLATION GUIDE

by Sarin Technologies Ltd.

DOCUMENT VERSION 1.10.000

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Sarin Technologies Ltd. Document Version 1.10.000 Catalog No. -----APRIL 2007

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This document describes how to install or upgrade your Quazer software.

You need to download the software as a zipped file from the Sarin FTP site. Contact your local representative for the login information.

How to Contact Us

Please contact your local Sarin representative with any questions or comments you may have regarding the site preparation procedure.

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Note

When the upgrade files are downloaded read the README file. This file contains the information of whether or not the MODAC software needs to be loaded.

1. In case of an upgrade file, download the upgrade executable you want to install and save it in the folder

C:\Program Files\Sarin Technologies\Quazer.

- In case of an upgrade/install through a disk you don't need saving it to your hard disk.
- 2. Open the folder and double-click the **Setup.exe** file.

Setup	
	Welcome to Quazer Setup
	This program will install Quazer on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program.
V I	
	Next > Cancel

The **Setup** window opens.

Next >

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Sarin Technologies warrants this product to be free from defects in materials and workmanship under normal use for one year from purchase. All implied warranties and
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install Quazer, you must accept this agreement.
< Back Yes No

The message explaining that the frame grabber installation procedure will take a while will appear.



5. Wait while the **.NET Framework** is installed.

A message explaining that the framework installation procedure will take a while will appear.



N	alcome to the Installation Wizard
	This wizard will guide you through the entire WinPcap 3.1 beta3 installation.
w	/elcome to the WinPcap 3.1 beta3 Setup program. This program will install WinPcap 3.1
	is strongly recommended that you exit all Windows programs before running this Setup ogram. Click Cancel to quit Setup and close any programs you have running. Click Next to ontinue with the Setup program.
w	ARNING: This program is protected by copyright law and international treaties.
Uı se	nauthorized reproduction or distribution of this program, or any portion of it, may result in evere civil and criminal penalties, and will be prosecuted to the maximum extent possible nder law.
ì	iost Installer Wizard

6. Click the \underbrace{Next} button to install the MODAC.

🗑 WinPcap 3.1 beta3 setup	×
License Agreement	
Please read the following license agreement carefully.	
Please closely read the following license agreement. Do you accept all the terms of the follow license agreement?	<i>i</i> ing
Copyright (c) 2004 NetGroup, Politecnico di Torino. All rights reserved.	^
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Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.	
Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.	
Neither the name of the "Politecnico di Torino" nor the names of its contributors may be	~
Yes, I agree with all the terms of this license agreement	
- 🕼 sost Installer Wizard	
< Back Next > Cance	

- 7. Select the checkbox as shown above if you agree to the terms of the agreement.
- 8. Click the **Next** button.

🖁 WinPcap 3.1 beta3 setup 🛛 🛛 🔀
Readme Information Please read the following information about the WinPcap 3.1 beta3 carefully.
Important information about WinPcap 3.1 beta3.
If an old version of WinPcap was already present on the system, it is strongly recommended to reboot the system at the end of the installation process.
Please visit the WinPcap home page http://winpcap.polito.it for information and updates.
Ghost Installer Wizard Cancel

A warning message is displayed.

9. Click the Next> button.

PWinPcap 3.1 beta3 setup	
Installation Complete	
The Installation Wizard has successfully installed WinPcap 3.1 bet	ta3.
WinPcap 3.1 betaRhas been successfully installed. Press the Finish but&n to exit Setup program.	
Ghost Installer Wizard	Finish

10. Click the Finish button.

The message explaining that the MODAC installation procedure will take a while will appear.



11. Click the **Finish** button to restart the computer.

Two icons are now added on the Desktop, they are |:



used as shortcut to load the Quazer control program.



Configurator used as a shortcut for loading the MODAC configurator.

Note: Do this chapter for new installations only

Setting the MODAC IP Address

Before we can configure the MODAC we must first set the IP address.

1. Open the MODAC Local Area Connection window.





OR:

Right click the icon of network places



Click on the Properties:



b. Click My Network Places.



c. Click View network connections.

d. Disconnect the NetWork cable from the back of the PC.

That will help you to identify the Modac Connection

After that reconnect it.



Double-click the **MODAC** connection icon.

📥 Local Area Con	nection Status	? 🛛
General Support		
Connection		
Status:		Connected
Duration:		00:09:46
Speed:		100.0 Mbps
- Activity	Sent —	— Received
Bytes:	66,810	106,257
Properties	Disable	
		Close

If you are not sure, ask your system administrator.

2. Click the Properties button.

🗕 Local Area Connection Properties 🛛 🔹 🕐 🔀
General Authentication Advanced
Connect using:
IIII Marvell Yukon 88E 8001/8003/8010 Configure
This connection uses the following items:
Client for Microsoft Networks
File and Printer Sharing for Microsoft Networks
🗹 📇 QoS Packet Scheduler
Internet Protocol (TCP/IP)
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
 Show icon in notification area when connected Notify me when this connection has limited or no connectivity
OK Cancel

- 3. Select Internet Protocol (TCP/IP).
- 4. Click the Properties button.

Internet Protocol (TCP/IP) Prope	rties 🛛 🛛 🛛
General	
You can get IP settings assigned auton this capability. Otherwise, you need to a the appropriate IP settings.	natically if your network supports ask your network administrator for
🔘 Obtain an IP address automaticalļ	y
- O Use the following IP address:	
IF Sddress:	50 . 50 . 50 . 2
Subnet mask:	255.255.255.0
Default gateway:	
Obtain DNS server address autor	natically
 Use the following DNS server add 	fresses:
Preferred DNS server:	
Alternate DNS server:	· · ·
	Advanced
	OK Cancel

5. Select the **Use the following IP address** radio button.

- 6. Enter an **IP addres**s of **50.50.50.2** and a **Subnet mask** of **255.255.255.0** in the IP address fields.
- 7. Click the OK button.

The MODAC now is set with the correct IP address.

Configuring the MODAC



1. On the desktop, click the **Configurator** icon.

Modac (Configurator	
?	Do you want to Listen to one spo	ecific Modac?
	Yes No]

A MODAC Configurator message is displayed.

2. Click the button.

	Transmit File	All the Modac Adresses:	Modac Information:
Read File	Compair Program		No Modac Selecter Prouct ID: 0
Start Program	Reset Modac		Serialnumber: 0
			EcosVersion:
us :			EcosBuild:
us:			EcosBui

The **MODAC Configurator** screen opens with no addresses listed.

3. Reset the MODAC.

The MODAC is located on the inside of the Electricity box door as shown below.



To reset the MODAC unplug, the electrical power cable and then replug it again.

4. Wait for the MODAC to register its address.



The MODAC address is now listed as shown above.

5. A status of **File Identical** is returned.

If this status is not returned start again from step 1.

- 6. In the **All the MODAC Addresses** pane, click the IP address.
- 7. Ensure that a status of **Connection MODAC OK** is returned.

	Transmit File	All the Modac Adresses:		Modac Information
Read File	Compair Program	00:12:20:01:00:85	50.50.50.1	Modac Master Prouct ID: 1
Start Program	Reset Modac			Serialnumber: 133
tatus : fodac 50.50.50.1 selected Jonnect Modac Vaiting for Modac to Respond				EcosVersion: 1.12 EcosBuild: Oct 12 2004 11:48:09

8. Click the Transmit File button.

Open					? 🛛
Look in:	Compact K	ernel	•	+ 🗈 💣 📰 -	
My Recent Documents Desktop My Documents My Computer	eCosKernel.	mcp			
My Network	File name:	ecoskernel.mcp		<u> </u>	Open
r idues	Files of type:	MCP files or BIN files		•	Cancel

The **Open** file window opens.

- 9. Select the **eCosKernel.mcp** file.
- 10. Click the Open button.

eCosKernel.mcp	Transmit File	All the Modac Adresses:	Modac Information
Read File	Compair Program	00:12:20:01:00:85 50:50:50.1	Modac Master Prouct ID: 1
Start Program	Reset Modac		Serialnumber: 133
us: iting for Modac to F nnection Modac OK en TFTPserver on S ading File	Respond		1.12 EcosBuild: Oct 12 2004 11:48:09

The file is transmitted to the MODAC erasing all old program files.

Action Options	Help	In Devices on the network		
eCosKernel.mcp	Transmit File	All the Modac Adresses:		Modac Information:
Read File	Compair Program	00 12 20 01 00 85 50 50	50.50.50.1	Modac Master Prouct ID: 1
Start Program	Reset Modac			Serialnumber: 133
tatus :				EcosVersion: 1.12
Ipen TFTPserver on 5 comparing the file	50.50.50.2			EcosBuild Oct 12 2004
lose IEIPserver				11:48:09

- 12. Open the folder; C:\Program Files\Sarin Technologies\Quazer.
- 13. Double-click the file; **PLChandlerRegisteryUpdate.exe**.

🕷 Registry Updater	
Check the Communication	n Cards for the Modac
▼ 50.50.50.2	PlcHandler
0.0.0.0	Windows
0.0.0.0	Windows
50.50.50.2	PlcHandler
0.0.0	Windows
UpDate Registry	Exit

14. Select the **PicHandler** checkbox as shown above.

The MODAC IP address must be as shown above.

- 15. Click the UpDate Registry button.
- 16. Close the **Registry Updater** window.



17. On the desktop, click the

The Quazer control program loads unless one or more of the files in the **Compact** folder have changed. If one of these files were changed a message is displayed **The Pic Does Not Match**. If this is the case do the following steps:

icon.

- 18. Shut down the application and the PC.
- 19. Switch off the main power on the electrical cabinet, wait few seconds and switch it on again.
- 20. Turn on the PC
- 21. Repeat step 17.

Resetting the PLC

1. When the message **The Plc Does Not Match** is displayed, click the **Yes** button.

A message is displayed; **Please Stop the Machine**.



- 2. Press the **Red** stop button.
- 3. Click the OK button.
- 4. A message is displayed; **Reset MODAC**.

See the step, **Reset the MODAC** on page 10.

5. Wait 10 seconds.

6. Click the OK button.

7. Press the Green button to restart the machine.