# MC851/MC861







COLOR/MONO



CONNECTIVITY

INFORMATION

Ο

### PREFACE

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The most up-to-date drivers and manuals are available from: http://www.okiprintingsolutions.com

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### NOTES, CAUTIONS AND WARNINGS

### NOTE

A note provides additional information to supplement the main text.

### CAUTION!

A caution provides additional information which, if ignored, may result in equipment malfunction or damage.

### WARNING!

A warning provides additional information which, if ignored, may result in a risk of personal injury.

### **NETWORK CONFIGURATION**

### INTRODUCTION

Your machine incorporates a fast 100BASE-TX/10BASE-T network interface. This guide explains the functionality of the built in network interface. Access for interconnection and producing self-diagnostic test and configuration printouts is provided via an interface panel at the rear of the machine.

This network interface supports IEEE802.2, IEEE802.3, Ethernet-II and SNAP, and can detect those frame types automatically.

Also, the interface supports major protocols such as TCP/IP, IPX/SPX (NetWare) and NetBEUI.

This guide details the network interface specification and several software utilities.

You should set the emulation in the Print Setup menu to Auto or PS before printing the selfdiagnostic test and settings.

> *NOTE Not all utilities, features or protocols are supported by every operating system. Please check with your User's Guide and support website for latest information.*

### **SPECIFICATION**

#### NOTE

Not all utilities, features or protocols are supported by every operating system. Please check with your User's Guide and support website for latest information.

ITEM	SPECIFICATION
Frame Types	IEEE 802.2 IEEE 802.3 Ethernet-II, SNAP, AUTO
Network Interface	100BASE-TX 10BASE-T
Network Protocols	TCP/IP V4, V6 IEEE 802.1x Network layer: ARP, IP, ICMP Session layer: TCP, UDP Application layer: LPR, FTP, TELNET, HTTP, IPP, BOOTP, DHCP, SNMP, DNS, SMTP, POP3, SLP, Bonjour IPX/SPX (NetWare) Remote printer mode (up to eight file servers and 32 queues) Print server mode over IPX/SPX (up to eight print servers) Encrypted password supported in print server mode EtherTalk NetBEUI NetBIOS, WINS LDAP Kerberos Windows Rally SSL/TLS IPSec
Functions	Self-diagnostic test printing Monitoring and configuration by Web browser Printer status notification by E-Mail

### SELF-DIAGNOSTIC TEST

With the machine power switched on, press the push-button located on the network interface panel (at the rear of the machine) for more than three seconds and release. The self-diagnostic test results and configuration settings are printed.

On the first page of the Network Information that is printed out, under the heading "General Information" the MAC or Ethernet address is given. For example:

MAC ADDRESS 00808784E3F1

The Ethernet address is therefore: 00:80:87:84:E3:F1

### CONFIGURATION UTILITIES

You can configure the network interface (NIC) by using one of the following methods:

UTILITY	FEATURES	SYSTEM REQUIREMENTS
Quick Setup	<ul> <li>Configure the NIC easily and simply without installing any software packages into your system. You can set the following:</li> <li>Enable/disable TCP/IP, NetWare, EtherTalk, NetBEUI protocols.</li> <li>Set IP address, Subnet Mask and Gateway for TCP/IP manually or by using DHCP.</li> <li>Set NetWare Mode and create Queue/Print Server/Printer objects.</li> <li>Zone name and Port name for EtherTalk.</li> </ul>	Windows: Windows 2000 Server/Professional Windows XP Home/Professional Windows XP Professional x64 Edition Windows Server 2003 Windows Server 2003 x64 Edition Windows Server 2008 x64 Edition Windows Vista 32-bit Windows Vista 64-bit Windows 7 Windows 7 Windows 7 x64 Edition Windows Server 2008 R2 Mac:
Admin Manager	Configure the NIC in detail.	Mac OS X 10.3.0 or greater You need to install Rosetta if using Mac OS X 10.6
Web Browser	Configure the NIC and printer by using a Web browser such as Microsoft Internet Explorer or Mozilla Firefox.	Microsoft Internet Explorer or similar.
Telnet	Configure the NIC using TELNET.	Third-party vendor developed TELNET client package. A TELNET Application is standard in Windows/UNIX/Linux.
SNMP	The printer and network card can be controlled using third- party vendor developed SNMP application.	Third-party vendor developed SNMP application.

### USING QUICK SETUP

Quick Setup utility allows you to configure the network interface easily and simply without installing any software packages.

You can configure the following:

- > Enable/disable TCP/IP, NetWare, EtherTalk, NetBEUI protocols.
- > Set IP address, Subnet Mask and Gateway for TCP/IP manually or by using DHCP.
- > Set NetWare mode and create Queue/Print Server/Printer objects.
- > Zone name and Port name for EtherTalk.

Configuration requires a PC with a supported Windows Operating System. Refer to the table above for system requirements.

This utility can only be used on a PC that can be connected to the network with TCP/IP or IPX/SPX (NetWare).

This utility must be used on a PC that is located on the same segment as the printer.

- Insert the DVD-ROM into the DVD-ROM drive. The Setup Utility starts automatically. If it does not start, double-click \setup.exe (in the root directory) on the DVD-ROM.
- **2.** Select the appropriate language.

- **3.** Select your printer model.
- 4. If you agree to the Software Licence Agreement, click I Agree.
- 5. Select Device Configuration.
- 6. Select Run Network Card Setup.



- 7. Select your language.
- 8. Select Oki Device Quick Setup and follow the on-screen instructions.



- **9.** When the settings are correct, click **Execute**. The new settings are transmitted to the network card but it still operates with pre-transmission settings.
- **10.** Click **Finish** to validate the new settings.
- **11.** Switch the printer off for 15 seconds and on again.

### USING ADMINMANAGER

#### NOTE

Not all utilities, features or protocols are supported by every operating system. Please check with your User's Guide and support website for latest information.

AdminManager is a powerful Microsoft Windows-based utility to configure all network interface functions easily and intuitively via a graphical user interface.

Configuration requires a PC with a supported Windows Operating System. Refer to "Configuration utilities" on page 8 for system requirements.

This utility can only be used on a PC that can be connected to the network with TCP/IP or IPX/SPX (Netware) and must be used on a PC that is located on the same segment as the printer.

### INSTALLATION

- Insert the DVD-ROM into the DVD-ROM drive. The Setup Utility starts automatically. If it does not start, double-click **\autorun.exe** (in the root directory) on the DVD-ROM.
- 2. Select the appropriate language.
- **3.** Select your printer model.
- 4. If you agree to the Software Licence Agreement, click I Agree.
- 5. Select Device Configuration.
- 6. Select Run Network Card Setup.



7. Select your language.

8. Select Oki Device Standard Setup.



**9.** If you want to install AdminManager on to your local drive, select **Install and Execute**. Otherwise, select **Execute from CD-ROM**. Follow the on-screen instructions.

Velcome	
OKI PRINTING SOLUTIONS	Welcome to Standard Setup
-	Execute from CD-ROM.
	C Install and Execute
Oki, Network Solutions for a Global Society	
	Next > Cancel

**10.** To run AdminManager, check **Yes** for **Do you wish to execute AdminManager?** and click **Finish**. Otherwise check **No** and click **Finish**.

### INTERFACE

Select Start > Programs > OkiData > Admin Manager.

🍂 👺 🕺	( 📓 🗟 🔎 🖻		
Printer Name	Model Name	Ethernet Address	IP Address
C5950 MB480	OkiLAN 8450e OkiLAN 8500e	00:80:87:AB:1E:60 00:80:87:7B:8D:AA	169.254.58.143 192.168.1.44
MC851 C9650	OkiLAN 8500e OkiLAN 8450g	00:80:87:EB:0E:FB 00:80:87:6B:4E:BF	192.168.1.32 192.168.1.45
1000-000 000000			

MENU	ITEM	FUNCTION
File	Search	Search printers in your network and list all printers.
	Exit	Exit the Admin Manager Utility.

MENU	ITEM	FUNCTION
Status	System Status	Displays current NIC configuration. Configuration data can be saved as log file.
	List of Configuration Items	Displays current NIC configuration data can be saved as log file.
Setup	Oki Device Setup	Configure the network interface (NIC).
	Setup by HTTP	Launch the default browser in your environment to access the selected printer's web page.
	Setup by TELNET	Launch TELNET application in your environment to access the selected printer's TELNET port.
	Create NetWare Queue	Create a NetWare queue. Note: Only visible when using Netware.
	Delete NetWare Object	Delete NetWare object. Note: Only visible when using Netware.
	Reset	Reset the selected network interface card.
	Test Print	Print self-diagnostic test pages.
	IP Address Setup	Set static IP address of network interface card manually.
Option	Use TCP/IP Protocol	Enable TCP/IP protocol.
	USe IPX/SPX Protocol	Enable IPX/SPX protocol.
	Environment Setup	Set the Environment settings.
Help	About	Displays version of Admin Manager.

NOTE Not all utilities, features or protocols are supported by every product. Please check with your User's Guide and support website for latest information.

Device Setup allows you to configure the network interface. Type the root password (default value is the last 6 characters of the MAC address) to configure. Remember that the root password is case sensitive. If the MAC address contains any alpha characters, type them as upper case. Device Setup contains details for the following tabs:

- > General > E-Mail(Receive)
  - TCP/IP > SNTP
    - NetWare > Maintenance
- > EtherTalk >
- SSL/TLS
- > NetBEUI/NetBIOS > IEEE 802.1X
- > SNMP > LDAP
- > E-Mail(Send) > Kerberos

The following section explains each tab's functionality.

>

>

### **General Tab**

therTalk NetBEUI/NetBIC	DS SNMP E-Mail(Send)	E-N			
*****	*****				
	Change				

This allows you to set or change the root password used for Admin Manager, TELNET and FTP.

Old password	
New password	
Confirm new password	
ок	Cancel

ITEM	EXPLANATION
Change root password	You can set/change the root password for AdminManager, TELNET and FTP.

General TCP/IP NetWare EtherTalk	NetBEUI/NetBIOS	SNMP	E-Mail(Send)	E-N_
Vise TCP/IP Protocol				
✓ Use DHCP/BOOTP				
☐ Use IPv6				
IP Address	10	18	207	34
Subnet Mask	255	255	255	0
Default Gateway	10	18	207	1
Auto Discovery		DNS Ser	ver	
Windows Rally	1	WINS Se	rver	1

This allows you to configure TCP/IP related items.

ITEM	EXPLANATION	
Use TCP/	Set TCP/IP protocol as	enabled/disabled.
IP Protocol	Use DHCP/BOOTP	Check this item if IP address, subnet mask, default gateway and IP addresses for DNS primary server and secondary servers are retrieved from the DHCP or BOOTP server. Otherwise, leave unchecked.
	Use IPv6	Enables IPv6.
	IP Address	Set the IP address of the selected network interface card.
	Subnet Mask	Set the subnet mask of the selected network interface card.
	Default Gateway	Set the default gateway of the selected network interface card.
Auto Discovery	Configure items related Network PnP Use to select Network Bonjour, and to set dev name.	PnP and Over Name
DNS Server	Set IP addresses for DNS primary and secondary servers.	ERES Server Setup     2       Primary Server     10       Becondary Boner     0       O     0       FULLE CONS       Duration month       OK
Windows Rally	Use WSD Print Use LLTD check to enable/disable	Windows Rally Setup 2 2 2 27 Use WSD Print 27 Use LLTD 0K Cancel
WINS Server	Set IP addresses for WINS primary and secondary servers and to enter scope ID.	Primary Saneer  Primary Saneer  Secondary Saneer  CK  Cancel

### NetWare Tab

I Device Se General   TC	P/IP NetWare	EtherTalk	NetBEUI/NetBIOS	SNMP E-M	ail(Send) E-I
🔽 Use Net	Ware Protocol				
• Use	IPX Protocol		C Use TCP/IP	Protocol	
Print Se	ver Name		OKI-MC860-EE	30E33-PS	
Frame Type		Auto Negotiation 👻			
Operation	Mode —				
· PSEF	VER Mode		C RPRINT	ER Mode	
Bindery Setup					
	NDS S	etup			
Printer Na	me	OKI-M	C860-EB0E33-PR		
100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100			r		Cancel

This is where you can configure NetWare related items.

ITEM	EXPLANATION			
Use NetWare Protocol	Set NetWare protocol as enabled/disabled.			
Use IPX Protocol / Use TCP/IP Protocol	Set protocol to use.			
Print Server Name	Set Print Server name.			
Frame Type	Set primary NetWare frame	e type.		
Operation Mode	Set NetWare mode.			
Check box beside Bindery Setup	Check if you want to use the Bindery mode and Bindery Setup button becomes available. If it is unchecked, the button is greyed out.			
Bindery Setup	Configure items related to mode. In this dialogue box, the fo items can be configured:	File server to be connected     1     S		
	Password	Set password for Print Server.		
	Job Polling Time	Set print job polling interval in seconds.		
NDS Setup	Set NDS tree and context v Print Server was created.	NDS Tree NDS Tree NDS Control		

ITEM	EXPLANATION	
RPRINTER Setup	Available if you select RPRINTER mode in Operation Mode. By selecting the RPRINTER button, this is displayed: Here you can specify print s to which the printer can be connected.	ORD Device Setup       Image: Constraint   TCERP   MedVate   Constraint   TCERP   MedVate   Constraint   TCERP   MedVate   Constraint   Constraint
	Time Out	Set duration from the last data's arrival to freeing of the port in seconds.
Printer Name	Set the NetWare printer obj	ject name.

### EtherTalk Tab

General TCP/IP NetWare EtherTalk NetWare Use EtherTalk Protocol	tBEUI/NetBIOS SNMP E-Mail(Se	nd)   E-N 4
Vise EtherTalk Protocol		
Printer Name	MC860	
Zone Name	<b>*</b>	
Initialize	Apply C	ancel

This allows you to configure EtherTalk related items.

ITEM	EXPLANATION
Use EtherTalk Protocol	Set EtherTalk protocol to enabled/disabled.
Printer Name	Set EtherTalk Printer object name.
Zone Name	Set the zone name to which the printer belongs.

### NetBEUI/NetBIOS Tab

General	TCP/IP	NetWare	EtherTalk	NetBEUI/NetBIOS	SNMP	E-Mail(Send)	E-1 ◀	
I▼ Use	NetBEUI	Protocol						
🔽 Use	NetBIOS	over TCP						
Short	Printer N	ame		MC860-EB08	33		_	
Workg	group			PrintServer			_	
Comr	nent			EthernetBoa	d OkiLAN	1 8500e		
I⊽ Ma	ister Brov	vser Setting	3					
	Initiali			F			el	

This allows you to configure NetBEUI/NetBIOS related items.

ITEM	EXPLANATION
Use NetBEUI Protocol	Set NetBEUI protocol to enabled/disabled.
Use NetBIOS over TCP	Set NetBIOS over TCP to enabled/disabled.
Short Printer Name	Set a name for the printer.
Workgroup	Set a work group name to which the printer belongs.
Comment	Set the comments for the printer (optional).
Master Browsing Setting	Check to enable the Master Browser setting.

### SNMP Tab

KI Device	Setup					?
General	TCP/IP	NetWare	EtherTalk	NetBEUI/NetBIOS	SNMP E-Mail(	Send) E-li
🔽 Use	SNMP Ser	vice		SNMPv3 + S	NMPv1	•
	SNM	Pv1 Settin	gs	s	NMPv3 Settings	1
MIB-II	Parameter	s				
	SysConta	act				
	SysNam	B		OKI-MC860-	EB0E33	
	SysLocal	ion		Ī		
				PI	rinter Trap Setup.	
1	Initialize	9	1	Apply	7	Cancel

This allows you to configure SNMP related items.

ITEM	EXPLANATION			
Use SNMP Service	ENABLE or DISABLE the SNMP protocol.			
SNMPv3 + SNMPv1	Select from the drop-down box which (or both) of these to use.			
SNMPv1 Settings	SNMP Read & Write Community.	Enables these passwords to be changed.		
SNMPv3 Settings	Enables Authorisatio done.	n and Privacy (Encryption) setup to be		

ITEM	EXPLANATION				
MIB-II Parameter	'S				
SysContact	Set SysContact (printer manager) name.				
SysName	Set SysName (printer model name).				
SysLocation	Set SysLocation (the	location wher	re the printer is installed).		
Printer Trap Setup	By selecting the but following dialogue bo displayed: In the dialogue box, following items can l configured:	box is Prime Tree Cermute have public TCP #1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
	Printer Trap Community Name	This community name is assigned to outgoing printer status traps such as off line, paper out, etc.			
	TCP#1-5	packet will b	jal		
	ΙΡΧ	to which a Ti By selecting dialogue box	-		

### E-Mail (Send) Tab

				ill(Send) E-N 4
🔽 Use SMTP Transmit				
SMTP Server Name		192.168.0.4	12	
Printer E-mail Address		OKIScanne	r@sturrockpov	ver.com
1	2	3	4	5
Attach Info			Comment	
Authenticatio	in		Others	

This allows you to configure SMTP related items.

ITEM	EXPLANATION		
Use SMTP Transmit	Check to enable SMTP.		
SMTP Server Name	Enter name of the SMTP server.		
Printer E-Mail Address	Enter the printers e-mail address.		
Destination Address 1 - 5	Set the following para	meters:	
AUG (233 ) - J	Destination Address	Set E-Mail address to which email should be sent.	
	Notify Mode	Select PERIOD or EVENT.	
When PERIOD is se	elected:		
Check time		Used to set the interval at which the selected events are checked. An e-mail will be sent at the specified interval for each event selected.	
Period mode		Set ENABLE/DISABLE for the events listed.	
When EVENT is sele	ected:		
Event Mode		Select: ENABLE (ON), DISABLE (OFF) or IMMEDIATE (NOWAIT) for the listed events. If ENABLE (ON) is selected, the check interval can be set (in hours and intervals of 15 mins).	
Attach Info	Select whichever infor	mation is to be included in the e-mail.	
Comment	Set up to four lines of comments.	text to be included with the e-mail as	

ITEM	EXPLANATION			
Authentication	Used to set the following security information:			
	SMTP Encryption Algorithm	Select required option from the drop-down menu. Select from: None, SMTPS, STARTTLS		
	SMTP Authentication Method	Select required option from the drop-down menu. Select from: None, SMTP, POP		
	User ID	Set the User ID for Authentication.		
	User Password	Set the User Password for Authentication.		
Others	Set the following:			
	SMTP Port Number	Set the SMTP port number (default is 25).		
	Reply to address	Set the E-mail address used for the [Reply to] field in the mail header.		

### E-mail (Receive) Tab

KI Device					(C. Hall/Deschart)		Ť	
NetWare	EtherTalk	NetBEUI/NetBIOS	SNMP	E-Mail(Send)	E-Mall(Receive)	SNTI 4	L	
POPR	eceive							
Γu	Ise POP Rei	ceive						
POP	3 Server							
POP	3 Server Us	er ID				_		
POP	3 Server Pa	ssword		í –				
					POP Detail			
SMTP	Receive							
Γu	se SMTP R	aceive		SMTP Detail				
					Domain Filter			
1							1	
	Initialize	1		Apply	Cano	ol		

Your machine supports an e-mail reception function (SMTP/POP3) allowing the printer to print PDF files attached to e-mails.

ITEM	COMMENTS				
Use POP Receive	Enable/disable	Enable/disable receiving E-Mail via POP3.			
POP3 Server	Set the IP addr	Set the IP address or host name of the POP3 server.			
POP3 Server UserID	Set User ID for POP3 server.				
POP3 Server Password	Set a password for	Set a password for the POP3 server.			
POP Detail	Set the following	ng:			
	Use APOP	Select if you want to use APOP.			
	POP3 Port Number	Set the port number for APOP (default is 110).			
	Mail Polling Time	Set interval to retrieve E-Mail(s) from the POP3 server. Selectable values, OFF, 1min, 5min (default), 10min, 30 min, 60 min.			
	POPSelect required option from the drop-Encryptiondown menu. Select from: None, POP3S,AlgorithmSTARTTLS				
Use SMTP Receive	Enable/disable	SMTP receive.			

ITEM	COMMENTS		
SMTP Detail	SMTP Receive Port Number	Set port number (default is 25).	
Domain Filter	Set the following:		
	Use Domain Filter	Enable/disable domain filtering.	
	Filter Policy	Select ACCEPT (the default) or DENY.	
	Domain Filter	Define up to five domain filters.	

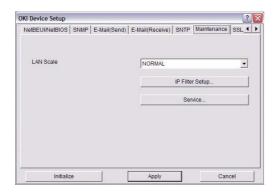
### SNTP Tab

OKI Device Setup	2 🛛
EtherTalk NetBEUI/NetBIOS SNMP	E-Mail(Send) E-Mail(Receive) SNTP Mainten
Use SNTP	
NTP Server 1 Address	srv14
NTP Server 2 Address	
Adjust Interval	
Local Time Zone	€ + 01 : 00 ▼ C -
Daylight Saving	
Initialize	Apply Cancel

In this Tab, you can configure SNTP related items.

ITEM	COMMENTS
Use SNTP	Enable/disable SNTP (Simple Network Time Protocol).
NTP Server 1 Address	Set the IP address or host name for NTP Server 1.
NTP Server 2 Address	Set the IP address or host name for NTP Server 2.
Adjust Interval	Set the interval for sending time update requests to the server. Select 1 hour (the default), 12 hours or 24 hours.
Local Time Zone	Set the local time zone from -12:00 to +13:00. Minute interval is selectable from 00 (the default), 15, 30 or 45.
Daylight Saving	When this is selected, one hour is added to the local time.

### Maintenance Tab



ITEM	COMMENTS		
LAN Scale	Select NORMAL (the default) or SMALL. Note: For small scale networks (with no routing), choose SMALL setting. For more complex networks choose NORMAL.		
IP Filter Setup	The following item:	s can be configured:	
	Use IP FIIter	Enable/disable IP Filtering. Default is disabled.	
	Admin IP Address	Set the administrator IP address.	
	IP Address Range	Set up to 10 IP Filter address ranges: IP Filter Range 1 through IP Filter Range 10.	
	Printing	Enable/disable printing of the specified IP address range. Default is disabled.	
	Configuration Enable/disable changing IP address ranges. Default is disabled.		
Service	box. Use TCP/IP Protoco Use NetBEUI Proto Use NetBIOS over Use NetWare Proto Use EtherTalk Proto Use FTP Service Use Telnet Service Use Web Service Use IPP Service Use SNMP Service Use SMTP Transmi Use POP3 Protocol Use SNTP	col TCP icol icol	

### SSL/TLS Tab

	ce Setup E-Mail(Send)	E-Mail(Receive)	SNTP	Maintenance	SSL/TLS	IEEE802.1X
100	ate Certificate -					
Self-signed Certificate     CA-signed Certificate				reate Certifi	cate	

ITEM	COMMENTS	COMMENTS			
Cipher Level	Set the strength of encryption: Strong = highest security, slowest speed Standard = medium security, medium speed Weak = least security, fastest speed				
Self-signed Certificate	For IPP encryption within an organization's internal network (intranet).				
Create Certificate	When Self-signed items are configur	Certificate is selected, the following red:			
	Common Name	The printer's IP Address appears here.			
	Organization	Enter the name of your organization.			
	Organization Unit	Optional. Allows you to enter a subdivision or department name.			
	Locality	Enter the name of the city where the organization is located.			
	State/Province	Enter the state or province where the organization is located.			
	Country/Region	Enter the country or region where the organization is located.			
	Key Exchange Method	Select RSA (the default) or Diffie-Hellman(DSS).			
	Key size	Select 512, 1024 (the default), or 2048 bits.			
	Term of Validity	Enter a starting and ending date (month/date/year) for which the certificate is valid.			

ITEM	COMMENTS		
CA-signed Certificate	Used for web encryption to provide security when printing over the internet. Requires an outside certification service which must be purchased separately.		
Create Certificate	When CA-signed ( are configured:	Certificate is selected, the following items	
	Common Name	The printer's IP Address appears here.	
	Organization	Enter the name of your organization.	
	Organization Unit	Optional. Allows you to enter a subdivision or department name.	
	Locality	Enter the name of the city where the organization is located.	
	State/Province	Enter the state or province where the organization is located.	
	Country/Region	Enter the country or region where the organization is located.	
	Key Exchange Method	Select RSA (the default) or Diffie-Hellman(DSS).	
	Key size	Select 1024 (the default) or 2048 bits.	

### IEEE802.1X Tab

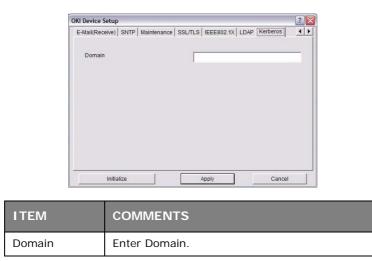
KI Device Setup					?	
SNMP   E-Mail(Send)   E-Mail(Receive)	SNTP	Maintenance	SSL/TLS	IEEE802.1X	•	1
Use IEEE802.1X						
EAP Type	Γ	EAP-TLS			•	
EAP User	ſ					
Use SSL/TLS Certificate						
✓ Authenticate Server						
	[	-	Certificate.			
terre and the second	-				_	÷

ITEM	COMMENTS		
Use IEEE802.1X	Enable/disable.		
ЕАР Туре	The following Extensible Authentication Protocols can be configured:		
	EAP-TLS	Selects Extensible Authentication Protocol - TLS.	
	PEAP	Selects Protected Extensible Authentication Protocol.	
	EAP User	Enter EAP User name.	
	EAP Password	Enter EAP password.	
Use SSL/TLS Certificate	Enable SSL/TLS certification.		
Authenticate server	Enable Server Authentication.		
Certificate	Client certificate	File: (User can specify). Password: (User can specify). Options to Import, Delete, View.	
	CA certificate	File: (User can specify). Password: (User can specify). Options to Import, Delete, View.	

-	
389	
30	
100	
Anonymous	•
[	
<u></u>	
None	•
Search Fil	ter
	30 100 Anonymous

ITEM	COMMENTS			
LDAP Server	Enter LDAP Server name.			
LDAP Port Number	Enter LDAP port number (default is 389).			
LDAP Timeout	Set LDAP time	out (default is 30).		
Maximum Entries	Set maximum	Set maximum entries (default is 100).		
Authentication Method	Select authentication method from the drop-down menu. Select from: Anonymous (default), Simple, Digest-MD5, Secure Protocol			
Authentication User ID	Enter user ID.			
Authentication User Password	Enter user password.			
Encryption Algorithm	Select encryption algorithm from the drop-down menu. Select from: None (default), LDAPS, STARTTLS			
Search Filter	Search root	Search root.		
	Attribute	Name1: cn Name2: sn Name3: givenName Mail Address: mail		
	Additional Enter additional detail (optional) Filter			

### Kerberos



### **IP** ADDRESS SETUP

If you only use TCP/IP and the printer has not yet been configured, occasionally it may not be displayed on AdminManager. You can configure the IP address of the printer by this function.

- 1. Select IP Address Setup from the Setup menu.
- 2. Set Ethernet Address and IP Address then select OK.

Ethernet Address	00 80 87 74 57 23
IP Address	169 254 56 52
OK	Cancel

The Ethernet Address (MAC address) is displayed during the self-diagnostic test.

### **OPTION MENU**

ITEM	EXPLANATION		
Use TCP/IP Protocol	If this item is selected, AdminManager uses TCP/IP protocol to search/configure network interface cards.		
Use IPX/SPX Protocol	If this item is selected, AdminManager uses IPX/SPX protocol to search/configure network interface cards.		
Environment Setup	TCP/IP Tab Set broadcast addresses that are used to search printers using the TCP/IP protocol. If <b>Use TCP/IP protocol</b> is unchecked, the search will not be carried out using TCP/IP.		
	NetWare Tab Set network addresses that are used to search printers via NetWare protocol. If there any many NetWare file servers on your network, specify the network address to which the network card belongs. If <b>Use NetWare protocol</b> is unchecked, the search will not be carried out using NetWare, but if <b>Auto</b> <b>Search</b> is selected, AdminManager will search all networks that AdminManager can detect.		
	SNMP Tab Obtain the printer name via SNMP - Select. Enter Community name. Add and Delete.		
	TimeOut Tab Search Every: Set response waiting time from a network card in seconds. Time Out: Set time out between AdminManager and the network interface card in seconds. Retry: Set how many times the retry will be carried out between AdminManager and the network interface card.		

In the **Option** menu, the following item can be selected:

### Help menu

In the Help menu, **About** is available and it displays AdminManager version number.

### USING A WEB BROWSER

If you do not wish to launch or install the Network Card Setup utility, you can access the printer's Web Page directly through a web browser.

If the printer is connected to the network using TCP/IP, its settings and the printer menu settings can be configured using a Web browser. Refer "Adjusting printer settings" on page 29 and the relevant manuals for details of how to launch and use the browser. Refer also to "Web browser" on page 58 for instructions on how to prevent your browser caching the printer's web pages.

### DEFAULT USER NAME AND PASSWORD

To apply configuration changes using a Web browser, you will be prompted for a username and password. The username is *root* and the default password is *aaaaaa*.

NOTE

To apply configuration changes using AdminManager, the username is **root** and the default password is the last six characters of the Ethernet (MAC) address (any alpha characters must be in upper case).

The root password can be changed to allow you to configure the printer by using a Web browser/TELNET/AdminManager. To change password from the Web browser, select **Admin Setup > Management > Admin Password** and follow on-screen instructions.

### ADJUSTING PRINTER SETTINGS

The network addresses used in this manual are shown as examples only. Network addresses used in your installation must be generated from your own network.

 Launch the Web browser and enter the IP Address of the network interface card in Address (Location/Position) and press the Enter key. The Web Page is displayed.

You can find the IP Address on the Self-Diagnostic Test printout, refer to "Selfdiagnostic test" on page 7.

NOTE

On the web page you can view printer status, job lists and links. You can also configure the IP Address, Subnet Mask and Gateway for the network card. However, to configure printer settings, you need to log in as "root" and enter the correct password to be able to configure all items.

- **2.** To access and adjust control settings, such as printer, scanner, fax network, security and maintenance, click the **Administrator Login** button in the left-hand pane.
- 3. Enter the username, *"root"* and password as *aaaaaa*.
- **4.** As this is the first time logging into the printer Web Page, the Printer Identification (basic setup) page is launched. You have two options:
  - You can enter the printer location, asset number, administrator name and select "Do not show this page again". Click OK to save these details. Allow a few seconds for the settings to save and the printer to restart automatically.
  - > If you do not wish to enter any details, click SKIP.

**5.** The printer's Web Page with full menu options opens up. Browse the menu and update information as appropriate.

ks 🙋 Google   🙆 ETSC we	bsite			
OKI				
PRINTING SOLUTIONS				
	· · ·			
			Refresh Stat	us Window
<mark>/iew Info</mark>   <u>Reports</u>   <u>Pa</u>	aper Setup   Profile   Admin Setu	ıp   <u>Job List</u>   <u>Direct Print</u>	Transmission Setting	<u>15   Links</u>
View Information	Information		Toner Remain :	
🗉 Status	Device Name	OKI-MC851-EB0EFB	Black:	90%
🕀 Counter	IP Address	192.168.1.32	Cyan: Magenta:	90%
🖸 Supplies Life	MAC Address	00:80:87:EB:0E:FB	Yellow:	90%
🖸 Usage Report	Location	00.00.07.20.02.10		
A Network	Serial Number	BETA300013	Print Service	Enabled
	Asset Number	02111000010	LPR	<u> </u>
🖸 System	Contact Name		Port9100	
	- Administrator		FTP	0
	Tray1	A4 SEF	IPP	0
	MP Tray	A4 LEF	NetWare PServer	0
	Duplex	Installed	NetWare	0
	Hard Disk	Installed	RPrinter	0
	Memory	512 MB	EtherTalk	0
	moniory	OIL IND	NetBEUI	0
	Version Information	f(	Setting Service	Enabled
	CU	04.72	SNMP	Enabled
	PU	00.06.07	WEB	
	Network Firmware	03.10	10000	
	Web Remote	03.05	Telnet	0
	Web Language	03.05	NELBEUT	U

The following table outlines the menu options for the printer Web Page.

MENU OPTION		DESCRIPTION			
View Info	View Info				
	Status	View information relating to your			
	Counter	printer status, consumables and network settings.			
	Supplies Life				
	Usage Report				
	Network				
	System				

MENU OPTION		DESCRIPTION	
Reports			
	Configuration		View and print information and
	Information	File List	- reports.
		Demo Page	
		Error Log	
		Scan to Log	
		MFP Usage Report	
		Network Information	
	Print	PCL Font List	
		PSE Font List	
		PPR Font List	
		FX Font List	
		Color Tuning Pattern	
		Color Profile List	
Paper Setup			
	Tray Configuration		View and adjust tray settings
	Select Tray		
Profile			
	Profile		Create, edit or delete Profile(s).
Admin Setup			
	PIN ID		Change your password and change any admin settings relating to your machine.

MENU OPTION			DESCRIPTION
Admin Setup (	Cont		
	Network	General Network Settings	View and change Network settings and apply access restrictions for
		TCP/IP	your printer network.
		Netware	
		Ethertalk	
		NBT/NetBEUI	
		Email	
		SNMP	
		IPP	
		Windows Rally	
		IEEE802.1X	
		Secure Protocol Server	-
		LDAP	
		Mail Server	
		Security	
		Maintenance	
	Copy Setup	Default Settings	View and adjust copy settings.
	Fax Setup	Default Settings	View and adjust Fax settings.
		Security Function	
		Other Settings	
	Scanner Setup	Default Settings	View and adjust scanner settings.
		E-mail Setup	
		USB Memory Setup	
	Print Setup	Print Menu	View and adjust Print settings.
		Color Menu	
		Sys Config Menu	
		Emulation	
	Management	Local Interface	Reset your printer and restore default settings for your printer
		System Setup	and Network Interface Card.
		Power Save	
		Memory Setup	
		Admin Password	
		Reset Settings	
	User Install	User Install	View and adjust settings.
		Time Setup	

MENU OPTION			DESCRIPTION		
Job Setup	Job Setup				
	Job List		Allows you to manage pending jobs for your printer.		
Direct Print					
	Web Printing		View and adjust settings.		
	Email Printing	Email Printing			
		Receive Settings			
		Send Settings			
Transmission	Transmission Settings				
	Automated Delivery Setup		View and change Transmission settings.		
	Transmission Settings				
	Automated Delivery Log				
	Transmission Log				
Links					
	Links		Add links for easy access to		
	Edit Links		customer support and on-line information.		

### **USING TELNET**

### CAUTION!

Please ensure a valid IP address for your network environment is used. Use of an incorrect IP address can cause serious problems on your network.

### **EXAMPLE TELNET CONFIGURATION**

TELNET requires the print server to have a valid IP address configured. If the NIC already has an IP address configured, skip steps 1 to 3 below.

NOTE

The method of configuring commands may differ between workstations. Refer to the workstation's manual.

**1.** Use the PING command to confirm the connection with the network card.

#### Example

For IP address 172.168.20.127:

ping 172.168.20.127

If there is no reply, there is a problem with the configuration of the IP address (the IP address has been already set manually or by the DHCP/RARP server), or with the network. Reset the network interface card settings to the default and try to set a temporary IP address. If you still have the problem after resetting the network interface card, consult the network manager.

2. Login to the network card using TELNET.

#### Example

For IP address 172.168.20.127

telnet 172.168.20.127

You should see a sequence similar to the following example:

```
Trying 172.168.20.127
Connected to 172.168.20.127
Escape character is `^]'.
myprn TELNET Server (Ver 01.05).
login: root
'root' user needs password to login.
password:
User 'root' logged in.
No. MENU (level.1)
------
1:Status / Information
2:Device Config
3:Network Config
4:Security Config
5:Maintenance
99:Exit setup
Please select (1-99)?
```

3. Enter the number of the item to be changed.

The details window for that item displays.

- **4.** When the configuration is complete, select **Exit Setup** to save your change. To exit without saving your modification, select **Quit**.
- **5.** Turn the printer off and on again.

NOTE The network card continues to use pre-transmission settings until the printer is turned off and back on again. NOTE

Not all utilities, features or protocols are supported by every product. Please check with your User's Guide and support website for latest information.

The machine and network card can be managed via a standard SNMP management station. The network card supports SNMPv1, MIB-II, Oki Data Private MIB and SNMP V3. In order for the machine to be managed correctly from an SNMP management station, the Oki Data Private MIB needs to be added to that management station. Please refer to the SNMP manager documentation for information on how to do this.

NOTE

The Oki Data Private MIB file can be found in the MIB folder on the DVD-ROM or support website. Please refer to the readme file for further information.

The printer's trap address can be set in five places using TCP/IP and in one place with IPX.

Printer trap settings can be made with TELNET and a Web browser.

### MANAGEMENT UTILITY - PRINTSUPERVISION

NOTE

Not all utilities, features or protocols are supported by every product. Please check with your User's Guide and support website for latest information.

PrintSuperVision is a Windows server application designed for managing and monitoring printing devices connected to a network. The core application is server-based and is accessible from any browser enabled device connected to the network.

For full details of how to install and use PrintSuperVision, please refer to the PrintSuperVision Configuration Guide which is available on the support website.

### PRINTING UTILITY - LPR (WINDOWS ONLY)

NOTE

Not all utilities, features or protocols are supported by every product. Please check with your User's Guide and support website for latest information.

The LPR Utility is a utility that allows printing data to printers connected to the network via TCP/IP. It is an alternative method of connecting printers instead of using the Microsoft TCP/IP port; however, the LPR utility offers some additional and very useful features:

- > Displays printer status print job status can be viewed, paused or cancelled.
- > **Download files directly to the printer** send PRN or PostScript files directly to the printer.
- > **Redirect print jobs** send print jobs to other printers if the original printer is busy or has an error.
- > Multicast printing send the same print job to many printers simultaneously<sup>1</sup>.

1. The printers all have to be of the same model.

### SYSTEM REQUIREMENT

Operating Systems with TCP/IP support and Oki printer that support TCP/IP.

### TO INSTALL THE LPR UTILITY

NOTE

Some Operating Systems require administrator privileges in order to make changes.

- 1. Set up the printer driver by designating the output destination to Local Printer (LPT1:). For information on setting up your printer driver, see the printer user guide.
- **2.** Insert the DVD-ROM into the DVD-ROM drive. The Setup Utility starts automatically. If it does not start, double-click setup.exe on the DVD-ROM.
- **3.** Select the appropriate language.
- **4.** Select your printer model.
- 5. Select Software Utilities.
- 6. Select Install LPR.
- **7.** Follow the on-screen instructions.
- 8. Click **Next** when the **Welcome** screen is displayed.
- 9. Verify **Destination Folder** and **Spool Folder** and click **Next**.
- Check Register in Startup if you want automatic startup as Windows boots up. Check Launch as minimized if you want to startup in the Icon state and click Next.
- **11.** Verify the program folder name and click **Next**. The installation starts.
- 12. When the installation ends, the Setup complete screen is displayed. Check Yes, I want to launch LPR Utility now and click Finish. Check Yes, I want to view the ReadMe File if you want to read Readme. The LPR utility will start.
- **13.** You may be asked whether it is OK to change write permissions for the spool directory. Click **Yes** to allow the utility to be correctly installed.
- 14. Select Add Printer on the Remote Print menu.
- **15.** Click **Discover**... to search for the IP address of a suitable printer on your network.
- **16.** Highlight the printer you will use and click **OK**.
- 17. If your printer is not discovered, click **Cancel** and you can type the IP address directly at **IP Address:**.
- **18.** Enter an IP address at **IP Address** and click **OK**. A printer is added to the main window.

Refer to the On-line Help for information on how to use the utility.

### UNINSTALLATION

- 1. Stop the LPR Utility.
- Select Start > Programs > Okidata > LPR Utility > Uninstall LPR Utility.
   You may find this under Start > All Programs in Windows XP.
- **3.** Click **Yes** when the Confirm File Deletion dialogue is displayed. Deletion of the LPR utility starts.
- 4. When the deletion has finished, the Uninstall Complete screen is displayed. Click **OK**.

If a file that has been added after installation exists in the folder to install the LPR utility or the folder to spool, you cannot delete the folder. Delete any unwanted files before running Uninstall LPR Utility.

# MICROSOFT WINDOWS

### OVERVIEW

This chapter provides guidelines on how to print over the network from various Microsoft Windows platforms. There are numerous ways of printing from Windows and the exact setup will vary depending upon your environment. There are also numerous versions of Windows, which can be configured as either a client, server or both.

Although there are many variants of Windows, the principles of network printing are the same. Microsoft provides on-line help with all of their operating systems and this is a good reference point for the exact details of each configuration option within Windows.

The network printer supports TCP/IP protocols that can be used in conjunction with the Windows operating system,

#### NOTE

Not all utilities, features or protocols are supported by every operating system. Please check with your User's Guide and support website for latest information.

### INSTALLING A NETWORK PRINTER

There are two ways to set up a Network Printer:

- > Install automatically, using the Oki Driver Installer
- > Install it yourself using the Add Printer Wizard

### USING THE OKI DRIVER INSTALLER

The Oki Driver Installer program searches for compatible printers on the Network, then installs and configures the printer drivers with the correct port settings automatically.

Using the Oki Driver Installer program, you can install to the following connected printer types:

- 1. Locally connected printers
  - > USB port
  - > Parallel port
- 2. Networked printers
  - > Directly connected (peer-to-peer) printers via TCP/IP. The Microsoft standard TCP/IP is installed and configured to use Port 9100 with the printer's IP address.
  - > Printers not directly connected, but shared via a PC (Client Server)

### Why use the Driver Installer?

- > Automatically discovers printers on the Network (TCP/IP)
- > Installs driver and correctly assigns the appropriate port and IP address
- > Allows easy configuration and sharing of the printer with other Network users
- Automatically configures the printer driver with the appropriate hardware device options such as hard disc drive, duplex unit, etc. (via the Oki Network Extension software)

### USING THE ADD PRINTER WIZARD

### Method summary:

The following table shows the different ways to connect to the printer (port types).

	WINDOWS 2000	WINDOWS XP	WINDOWS VISTA/ SERVER 2003/ SERVER 2008/7
Windows Rally	NO	NO	YES
Windows standard TCP/IP	YES	YES	YES
Oki LPR	YES	YES	YES
IPP	YES	YES	YES
NetBEUI	YES	YES	NO

### About the different methods

### Windows Rally

Windows Rally is an automated "Plug-n-Play" type utility that allows users to discover and configure network devices effortlessly.

### Windows standard TCP/IP port

The standard TCP/IP port simplifies connecting to remote printers using the TCP/IP protocol. A computer that acts as a print server must run the TCP/IP protocol in order to print.

Can be configured to use either LPR or RAW (e.g. Port9100).

### OkiLPR

Used to connect your printer over TCP/IP using an LPR port.

OkiLPR also includes useful tools enabling you to download PS and PRN files directly to your printer and automatically redirect jobs to other printers on the network.

### IPP

The IPP (Internet Printing Protocol) defines a standard protocol for printing as well as managing print jobs, media, resolution, etc.

### NetBEUI

NetBEUI (NetBios Extended User Interface) is a protocol that was designed for use in small workgroups or LANs. Within Windows NetBEUI is used for file and printer sharing between computers. It provides a simple method of printing, but it does have limitations, and is not as robust as TCP/IP or IPX. Typically it is employed in small business or home networks.

### CONFIGURING THE NETWORK PRINTER IP ADDRESS

Use the Standard Set-up Utility to configure the IP Address, Subnet Mask and Gateway.

NOTE It will not be necessary for printers connected to a network using DCHP to use this setup method.

Some steps may not display depending on the network protocols installed.

- **1.** Connect the machine to the network and turn on.
- Insert the DVD-ROM into the DVD-ROM drive. The Setup Utility starts automatically. If it does not start, double-click \setup.exe (in the root directory) on the DVD-ROM.
- **3.** Select the appropriate language.
- 4. Select your printer model.
- 5. If you agree to the Software Licence Agreement, click I Agree.
- 6. Select **Device Configuration**.



- 7. Select Run Network Card Setup.
- 8. Select your language.
- 9. Select Oki Device Quick Setup and follow the on-screen instructions.



 Select the appropriate network card, using the Ethernet address to identify it, and click Next. The Ethernet address of the printer can be found on the self-diagnostic printout, which can be printed by pressing the push-button on the network card panel for more than three seconds and then releasing it. See "Self-diagnostic test" on page 7.

### Using TCP/IP protocol

When using lpr in UNIX and other TCP/IP environments, please select **Yes**. To use in a TCP/IP environment, an IP address should be assigned to the Ethernet card.

If **Yes** has been selected and TCP/IP is the only working protocol and the IP address has not already been assigned, you can either obtain an IP address automatically or assign an IP address.

When **Obtain an IP address automatically** is selected, the device IP address will be automatically assigned by the DHCP server. In an environment without a DHCP server, please assign the IP address manually.

If you are *manually* assigning an IP address, you need to enter:

- > An IP address
- > Subnet mask
- > Gateway address.

#### 11. Click Next.

### Using Bonjour protocol

Bonjour is the preferred protocol for printing data from the Macintosh environment.

#### Using NetBEUI protocol

Using NetBEUI makes it easy to manage your Oki product and print within the network environment of Windows.

- **12.** When the settings are correct, click **Execute**. The new settings are transmitted to the network card but it still operates with pre-transmission settings.
- **13.** Click **Finish** to validate the new settings.
- **14.** Switch the printer off for 15 seconds and on again.

Now that both Windows and the printer have been configured to use TCP/IP, the next step is to configure Windows to print to the network printer.

#### UNINSTALLING THE NETWORK CARD SETUP UTILITY

To uninstall the Network Card Setup utility:

- 1. Select Start > Control Panel.
- 2. Select Add or Remove Programs.
- 3. Select AdminManager (Oki Setup Utility) and click Remove. This removes the Network Card Setup utility from your computer.
- 4. Restart your computer to ensure that the utility has been fully removed.

# MAC OS X

### OVERVIEW

This section is for administrators and it should be used in conjunction with the relevant Mac OS X manual. Please ensure your Mac has the latest Mac OS X updates installed.

To get the best results from your printer, install the Postscript Printer Description (PPD) file supplied with your printer and use this to customise the Apple PostScript driver that is built-in to the OS X. Features provided by the PPD file include:

- > Supported paper types
- > Paper trays
- > Printer resolution
- > Printer colour matching

*NOTE The PPD file must be installed using the Oki Driver Installer to ensure that all essential files are copied.* 

#### PRINTING THE CONFIGURATION PAGE

The printer's configuration page reports information that is required for Macintosh configuration. To print a configuration page, while the printer is switched on, depress the NIC's push-button for more than three seconds and then release.

The first six characters of the Ethernet address are the same for all network cards. The last six characters of the Ethernet address are unique to each card.

### SETTING UP A NETWORK PRINTER

1. If the printer does not already have an IP address, use the Printer Setup Utility to assign an IP address. See "The printer setup utility interface" on page 44

To do this, you will need to know the printer's MAC address. This can be found on the print server's network summary printout. See "Self-diagnostic test" on page 7.

- 2. Install the printer driver software. This copies the printer driver files to the correct location on your Mac OS X system.
- **3.** Make a connection to the printer by USB, TCP/IP, Rendezvous or AppleTalk. See "Connecting to your printer" on page 50
- **4.** If required, enable hardware device options such as additional paper trays or printer hard disk. See "Configuring printer hardware options" on page 51

### MACOS PRINTER SETUP UTILITY

You can use the Setup Utility to:

- > Assign IP addresses and modify TCP/IP settings
- > Configure settings for Netware, EtherTalk, NetBEUI and SNMP

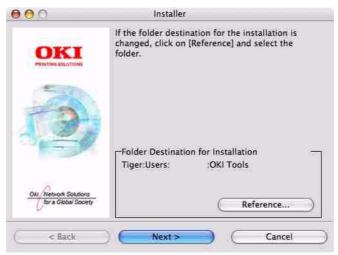
The Printer Setup Utility is a powerful MacOS-based utility for configuring all print server functions using a graphical user interface.

### INSTALLING THE PRINTER SETUP UTILITY

- **1.** Insert the DVD into the DVD-ROM drive.
- 2. Open the Printer Setup Utility folder and double-click Installer.



**3.** Select the destination directory, then click **Next**.



4. Ensure the **Yes** option is selected to activate the utility, then click **Finish**.

000	Installer
OKI PRINTINO SOLUTIONS	Setup Utility Installation is complete.
	Next, you can activate the Setup Utility.
	Do you want to activate the Setup Utility?
Oki, Network Solution for a Global Soci	O No
< Back	Finish Cancel

### THE PRINTER SETUP UTILITY INTERFACE

The Printer Setup Utility auto-discovers Oki compatible network cards.

1. Select the correct printer NIC to configure and choose Setup menu > Oki Device Setup.

* 📓 🖌	1		
Model Name	Ethernet Address	IP Address	
OkiLAN 8300e	00:80:87:B4:58:FD	10.18.207.250	
OkiLAN 8450g	00:80:87:AB:54:4B	10.18.207.142	
OkiLAN 6500e	00:80:87:CB:17:B7	10.18.207.59	
OkiLAN 8450e	00:80:87:CB:0E:A4	10.18.207.108	
OkiLAN 6600g	00:80:87:0B:00:04	10.18.207.112	
OkiLAN 6500e	00:80:87:D4:32:F4	10.18.207.87	
OkiLAN 8450e	00:80:87:74:57:26	10.18.207.55	
OkiLAN 8300e	00:80:87:D4:C2:39	10.18.207.96	
OkiLAN 8450g	00:80:87:AB:54:F3	10.18.207.50	
OkiLAN 8450e	00:80:87:CB:0E:AB	10.18.207.62	

10 Oki Devices are found in the network.

2. At the prompt, enter the Admin password.

	Password
Input Password :	****
📃 Guest user (rea	d only)
	Cancel OK

### NOTE

The default admin password is the last six digits of the MAC Address, minus any punctuation marks. e.g., for a MAC (Ethernet) Address of 00:80:87:A4:55:79, the password would be A45579. Password is case sensitive.

- **3.** Select the TCP/IP tab and assign your machine's IP address.
- 4. Click Apply.

OkiLAN 8450g(10.18.20	7.142
General TCP/IP NetWare EtherTalk	NetBEUI SNMP
Use TCP/IP Protocol	
IP Address	10.18.207.142
Subnet Mask	255.255.255.0
Default Gateway	10.18.207.1
Use IPv6 Function	
(Initialize)	Cancel Apply

### MENU OPTIONS

### **Discover Printers**

Locates and lists all printers in your network which have an Oki compatible network card installed.

### System Status

Displays the network card summary details.

### **Oki Device Setup**

Use this to configure the network card settings (requires Admin password).

### General Tab

.18.207.142
rTalk NetBEUI SNMP
*****
Change
Cancel Apply

The General tab allows you to change the admin password.

- 1. Click Change.
- 2. Enter the current value, then enter the new value and re-enter it under Confirm ....

NOTE The default admin password is the last six digits of the MAC Address, minus any punctuation marks. e.g., for a MAC (Ethernet) Address of 00:80:87:A4:55:79, the password would be A45579. Password is case sensitive.

- 3. Click OK.
- 4. Click Apply.

### TCP/IP Tab

OkiLAN 8450g(10.18.2	07.142
General TCP/IP NetWare EtherTalk	NetBEUI SNMP
Use TCP/IP Protocol	
IP Address	10.18.207.142
Subnet Mask	255.255.255.0
Default Gateway	10.18.207.1
Use IPv6 Function	
Initialize	Cancel Apply

ITEM	COMMENTS
Use TCP/IP Protocol	Enable/disable TCP/IP protocol.
Use DHCP/BOOTP	Click to select this item if the IP address, subnet mask, default gateway and IP addresses for DNS primary server and secondary servers are retrieved from the DHCP or BOOTP server.
IP Address	Set the IP address of the selected network interface card.
Subnet Mask	Set the subnet mask of the selected network interface card.
Default Gateway	Set the default gateway of the selected network interface card.
Use IPv6 Function	Use to enable/disable IPv6.

### Netware Tab

ITEM	COMMENTS	
Use NetWare Protocol	Enable/disable NetWare protocol.	
Print Server Name	Set a Print Server name.	
Frame Type	Set the primary NetWare frame type.	
Operation Mode	Select the NetWare mode: PSERVER Mode (the default) RPRINTER Mode	
Bindery Setup	Configure Bindery mode items, including:	
	File Server to be connected.	Specify up to 8 file servers to connect.
	Password.	Set a password for the Print Server.
	Job Polling Time	Set the print job polling interval in seconds.
NDS Setup	Set the NDS Tree and Context where the Print Server was created.	
Printer Name	Set the NetWare printer	object name.

### EtherTalk Tab

Use EtherTalk Protocol	
Printer Name	<u>[</u>
Zone Name	þ.

ITEM	COMMENTS
Use EtherTalk Protocol	Enable/disable EtherTalk protocol.
Printer Name	Set the EtherTalk Printer object name.
Zone Name	Set the name of the zone to which the print server belongs.

### NetBEUI Tab

eneral TCP/IP NetWare Ether	Talk NetBEUI SNMP
Use NetBEUI Protocol	
Short Printer Name	7
Workgroup	PrintServer
Comment	EthernetBoard OkiLAN 8450g

ITEM	COMMENTS
Use NetBEUI Protocol	Enable/disable NetBEUI protocol.
Short Printer Name	Set a name for the print server.
Workgroup	Set a name for the work group to which the print server belongs.
Comment	Set the comments for the print server.

### **SNMP** Tab

MIB-II Parameters SysContact	
SysName	OKI-
SysLocation	

ITEM	COMMENTS
SysContact	Set the printer manager name.
SysName	Set the printer model name.
SysLocation	Set the location where the printer is installed.

### **Configuration via HTTP**

#### NOTE

To apply configuration changes using a web browser, you will be prompted for a username and password. The username is **root** and the default password is **aaaaaa**.

### Displays the printer web page.

ks 👩 Google 🛛 ETSC website				
PRINTING SOLUTIONS			Refresh	us Window
/iew Info   Reports   Pape	r Setup   Profile   Admin Setu	p   Job List   Direct Print	Transmission Setting	IS   Links
View Information			Toner Remain	
Status	Information		Black	90%
⊕ Counter	Device Name IP Address	OKI-MC851-EBOEFB	Cyani Magenta:	90%
O Supplies Life	IP Address MAC Address	192.168.1.32 00:00:87:EB:0E:FB	Yellov:	90%
🗆 Usage Report	Location	00:00:07:EB:0E:FB		
	Serial Number	BETA300013	Print Service	Enabled
B Network     ■     Network     ■	Asset Number	BE1#300013	LPR	•
🗆 System	Contact Name		Port9100	
	- Administrator		FTP	0
	Tray1	A4 SEF	IPP	0
	MP Tray	A4 LEF	PServer	•
	Duplex	Installed	NetWare	0
	Hard Disk	Installed	RPrinter	0
	Memory	512 MB	EtherTalk	•
	,		NetBEUI	0
	Version Information		Setting Service	Enabled
	CU	04.72	SNMP	0
	PU	00.06.07	WEB	
	Network Firmware	03.10	Telnet	ŏ
	Web Remote	03.05	NetBEUI	õ
	Web Language	03.05		0

### Environment setup

Use this to configure the utility preferences for broadcast addresses for TCP/IP protocol and Time Out.

### TCP/IP Tab



ITEM	COMMENTS
Set Broadcast Address	Set broadcast addresses that are used to search Oki network interface cards using the TCP/IP protocol.
Add	Click <b>Add</b> to add the address to the list in the box.
Delete	Select an address in the box, then click <b>Delete</b> to remove it.

### **Timeout Tab**

Environment Setup	
TCP/IP Timeout	
Set Timeout	
Printer search setting	
Polling Interval (20-180 seconds)	30
Data Send/Receive	
Time Outs (1-60 seconds)	5
Retrys (1-5)	3
Cancel Cancel	ik 📄

ITEM	COMMENTS
Set Timeout: Printer Search	Search Every (20-180sec) Set the response waiting time from the network card in seconds. Default is 30 seconds.
Set Timeout: Data Send/ Receive	<b>Time Outs (1-60sec)</b> Set time out between AdminManager and the network interface card in seconds. Default is 5 seconds.
	<b>Retry (1-5)</b> Sets how many times AdminManager will retry to transmit/receive data to/from the network interface card. Default is 3 retries.

### CONNECTING TO YOUR PRINTER

#### NOTE

The steps below are for Snow Leopard (10.6) and Leopard (10.5) Operating Systems. The principle of connecting to your printer is the same, though the steps may vary for different Operating Systems. Please refer to the ReadMe file on the driver DVD.

### SNOW LEOPARD (10.6) AND LEOPARD (10.5)

#### USB

- 1. Choose Apple Menu > System Preferences > Print & Fax.
- 2. If the printer is already in the list of printers, click "-" to remove it.

#### NOTE

This is necessary as Leopard may not be using the correct printer driver files.

- **3.** Click "+" to add a new printer.
- 4. Ensure the Default tab is selected and select your printer from the list.
  - > Your printer is displayed as type **USB** in the list of available printers.
    - Ensure that the Print Using: selection matches your printer. If Generic PostScript Printer is displayed, select a driver that matches.
- 5. Click Add.
- 6. Click **Configure**... and ensure the hardware options displayed match your printer.

*NOTE Hardware options are not configured automatically.* 

The printer is added to the list of printers.

7. Restart your computer.

#### Bonjour

- 1. Choose Apple Menu > System Preferences > Print & Fax.
- **2.** Click "+".
- 3. Select your printer model from the Default Browser.
- 4. Click Add....
- **5.** Depending on the connection type, you may be prompted to configure any additional printer hardware options. If your printer has options such as a storage device or second tray, switch on the relevant options.

### AppleTalk (Leopard only)

NOTE AppleTalk is not supported in Snow Leopard.

- 1. Choose Apple Menu > System Preferences > Print & Fax.
- **2.** Click "+".
- **3.** Select your printer model from the Default Browser.
- 4. Click Add....
- 5. Depending on the connection type, you may be prompted to configure any additional printer hardware options. If your printer has options such as a storage device or second tray, switch on the relevant options.

#### **TCP/IP** Connection

- 1. Choose Apple Menu > System Preferences > Print & Fax.
- **2.** Click "+".
- 3. Click the IP Printer button.
- 4. From the Protocol menu, choose Line Printer Daemon LPD.
- 5. Enter the printer's IP address in Address.

To find the printer's IP address, you can print a configuration page from the printer's operator panel. Refer to "Printing the configuration page" on page 42.

- **6.** Check the correct PPD file for your printer is selected in the Print Using menu.
- 7. Click Add.
- 8. You will be prompted to configure any additional printer hardware options. If your printer has options such as a storage device or second tray, switch on the relevant options. Refer to "Configuring printer hardware options" on page 51.

### **CONFIGURING PRINTER HARDWARE OPTIONS**

NOTE

Applies to IP and Rendezvous network connections only.

If you have added additional hardware, for example additional paper trays, to your printer these must be enabled in the printer driver.

- 1. Choose Apple Menu > System Preferences > Print and Fax.
- 2. Click the **Printers** menu, and choose **Show Info**.
- 3. From the popup menu, select Installable Options.
- 4. Select any options appropriate to your hardware, and click **Apply Changes**.

NOTE

Not all utilities are provided for every operating system. Please check with your User's Guide and your support website for latest information. This section applies to devices which support PCL or Postscript.

### OVERVIEW

The printer supports many protocols such as LPD, FTP, TELNET, SNMP and IPP, and works within the UNIX environment.

To use the network card within the UNIX environment, the following steps are required:

### CONFIGURATION

### **NETWORK INTERFACE CARD SETTING**

The first step in installing the network card under UNIX is to set up the IP address, Subnet Mask and Gateway. This section explains one way to set them up from a UNIX workstation.

- > The network addresses used in this manual are shown as examples only. Network addresses used in your installation must be generated for your own network.
- > Log in as root to change the configuration of the printer.
- > If an incorrect IP address, Subnet Mask or Gateway is entered, the network may go down or other damage may occur. Check the address with your network manager.

The following explanation uses Sun Solaris 2.8 (Solaris 8) as an example. The actual commands may differ between versions of UNIX, so refer to the workstation manuals for more information.

*NOTE If you do not have superuser rights, the network manger should conduct the configuration.* 

- **1.** Log in as root to the workstation.
- 2. If the printer does not have an IP address already assigned, use the *arp* command to set a temporary IP address.

*Example: for IP address 192.68.20.127 and network card address 00:80:87:01:00:D2* 

# arp -s 192.168.20.127 00:80:87:01:00:D2

**3.** Use the *ping* command to confirm the connection with the network interface card.

Example: for IP address 192.168.20.127

# ping 192.168.20.127

If there is no reply, there is a problem with the configuration of the IP address (the IP address has already been set manually or dynamically), or with the network. Reset the network interface card settings to default and try to set a temporary IP address.

If you still have the problem after resetting the network interface card, consult the network manager.

4. Login to the network interface card using TELNET.

Example: Logging in to IP address 192.168.20.127

```
#telnet 192.168.20.127
Trying 192.168.20.127
Connected to 192.168.20.127
Escape character is `^'.
myprn TELNET server (Ver 01.01).
login: root
'root' user needs password to login.
password:
User 'root' logged in.
No. MENU (level.1)
1 : Status / Information
2 : Device Config
3 : Network Config
4 : Security Config
5 : Maintenance
99 : Exit setup
Please select (1- 99)?
```

5. Type 1 and press the Enter key. Perform the following settings:

```
Please select (1- 99)? 1
No. MENU (level.2)
1 : Device
2 : Network
3 : Version
99 : Back to prior menu
Please select (1- 99)?
```

**6.** Logout from the network interface card. Turn the printer off for about 15 seconds and on again to validate the settings.

#### LPD Printing

Line Printer Daemon (LPD) is the most common protocol for printing with TCP/IP to a network printer. Refer to the workstation's manual for details of Ipr and Ip commands. The following explanation in this section uses the printing of print file **test.prn** with printer name *myprn\_lp* as an example.

### Logical printers

The printer's network interface includes three logical printers.

- > Ip must be used for printing a file created using the printer driver.
- > sjis must be used for printing a text file of Shift JIS Kanji code.
- > euc must be used for the printing a text file of the EUC Kanji code.

LOGICAL PRINTER	PRINTER FUNCTION
lp	For direct output
sjis	For Shift JIS Kanji converted output
euc	For EUC Kanji converted output

> sjis and euc function only as PostScript printers.

### **BSD-based UNIX**

Print using the **lpr** command.

# lpr myprn\_lp test.prn

If the **lprm** command is used, the print job is cancelled.

Example: To delete a print job (Job ID 123) on the myprn\_lp

# lprm myprn\_lp 123

Verify the printer status using the **lpq** command.

- > The result of **Ipq** may not be displayed correctly depending on UNIX operating system specification.
  - # lpq myprn\_lp

### System V-based UNIX

Print using the **Ip** command.

# lp -d myprn\_lp\_lp test.prn

Delete a print job using **cancel** command.

Example: To delete a print job (Job ID 456) in the myprn\_lp

# cancel myprn\_lp -456

Verify the printer status using the **lpstat** command.

# lpstat

The result of **Ipstat** may not be displayed correctly depending on UNIX operating system specification (e.g. Solaris 2.x).

### FTP printing

FTP (File Transfer Protocol) is used for transferring a file with TCP/IP. If the print data is sent to a logical printer via FTP, it is printed.

Refer to the workstation's manual for details of the ftp command. The following explanation uses print file *test.prn* with printer name **myprn\_lp** as an example.

### LOGICAL DIRECTORIES

The printer's network interface includes three logical directories.

- > **Ip** must be used for printing a file created using the printer driver.
- > sjis must be used for printing a text file of Shift JIS Kanji code.
- > euc must be used for the printing a text file of the EUC Kanji code

LOGICAL DIRECTORY	PRINTER FUNCTION
lp	For direct output
sjis	For Shift JIS Kanji converted output
euc	For EUC Kanji converted output

- > jis and euc function only as PostScript printers.
- > You can not send data to the root directory.
- **1.** Log in to the network interface card.

When printing with ftp, use any values for name and password. However, if the user name is root, the password set under TELNET or the utility is required. See the appropriate section for details.

Example: Logging in with host name myprn (or IP address 192.168.20.127).

```
# ftp myprn (or ftp 192.168.20.127)
Connected to myprn
220 EthernetBoard 8100e Ver 01.50 FTP Server
Name (myprn:<none>) : root
331 Password required.
Password:<CR>
230 User Logged in
ftp>
```

The network card logical directory structure is hierarchical. Move to the logical directory; it is not possible to output print data to the root directory.

2. Move to the preferable logical directory using the *cd* command.

Example: moving to the Ip directory and confirming the current directory.

ftp> cd /lp
250 Command OK.
ftp> pwd
257 "/lp" is current directory
ftp>

**3.** Configure the transfer mode.

There are two types of transfer mode: BINARY mode, in which the file content is output as it is and ASCII mode, which converts the LF code to the CR+LF code. If a binary file converted by the printer driver is transferred, the transfer mode has to be BINARY mode.

*Example: Changing transfer mode to binary mode and verifying the current mode:* 

```
ftp> type binary
200 Type set to I.
ftp> type
Using binary mode to transfer files.
ftp>
```

**4.** Transfer the print data to the network card using the put command. Two methods of file transfer using the put command are available.

Example: Transferring print data test.prn

ftp> put test.prn

Example: Transferring print data specified by absolute path/users/test/test.prn

ftp> put /users/test/test.prn

**5.** Logout from the network card using the quit command.

ftp> quit

Three states can be verified using the quote command stat: the IP address, login user name and transfer mode. In addition, printer status can be verified by specifying the directory after the stat (lp, sjis, euc).

Example: Displaying network card status

ftp> quote stat 211-FTP server status: Connected to: 192.168.20.10.000.00 User logged in: root Transfer type: BINARY Data connection: Closed. 211 End of status. ftp>

Example: Displaying the network card status (directory name: Ip)

ftp> quote stat /lp
211-FTP directory status:
Ready
211 End of status
ftp>

## TROUBLESHOOTING

The network addresses used in this manual are shown for example only. Network addresses used in your installation must be generated from your own network.

### Self-DIAGNOSTIC TEST

### PRINTER DOES NOT PRINT

- > Check that your printer is switched on.
- > Check the printer status.
- > Ensure that the printer is connected to your computer.

### NG IS PRINTED IN THE SELF-DIAGNOSTIC TEST

If NG is printed in the self-diagnostic test or a Flash ROM Check Registers NG:

- **1.** Turn the printer off for 15 seconds and then on again.
- 2. Press the reset button, located close to the Network Interface Panel at the back of your printer, to re-initialize it.

### TCP/IP

### COMPUTER CANNOT FIND THE NETWORK INTERFACE CARD

Carry out the following procedures to verify the printer settings:

- > Turn the printer off for 15 seconds and then on again.
- > Confirm the network interface is enabled on the printer.
- > Check there is a response to the PING command.
- > Check that the network cable is correctly connected and that the green LED close to the printer's network interface is lit. If not, change the cable and try again.
- > Run the Self-diagnostic test as described on page 7.
- > Check the IP Address, Subnet Mask and Gateway are correct.
- > Check that the TCP/IP protocol is set to Enable.
- > Reset the network interface card to factory default settings.
- > If DHCP, BOOTP and RARP are not used, ensure they have been set to Disable.

### CANNOT PRINT WITH LPR AND FTP

- > Turn the printer off for 15 seconds and then on again.
- > Check there is a response to the *ping* command.
- > Check the network cable is correctly connected.
- > Change the cable and try again.
- > Check the host name and IP address are configured in the workstation.
- > Check the printer port name is configured in the workstation.
- > There are three port names: *Ip*, *euc* and *sjis*. Use *Ip* by default as *euc* and *sjis* are specific to PostScript printers.

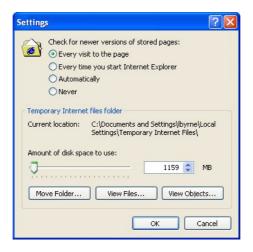
### WEB BROWSER

If you are using the Web browser to configure your machine settings, but do not see the most recent settings displaying on the Web page, you should temporarily switch off your browser's page caching. To prevent your web browser caching the printer web pages, carry out the following steps as appropriate for your web browser.

NOTE Keeping this setting enabled all the time may slow down web browsing. You may want to revert to the browser default setting once you have finished using the printer web page.

### MICROSOFT INTERNET EXPLORER

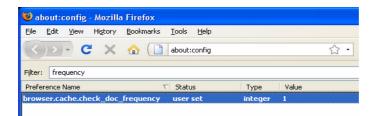
- 1. Select Tools > Internet Options.
- 2. Select the General tab and, in **Temporary Internet files**, click **Settings**.
- 3. Under Check for newer versions of stored pages, select Every visit to the page.
- 4. Click OK.



### **MOZILLA FIREFOX**

- 1. In the Firefox address bar, type *about:config*.
- 2. In the Filter field, type *frequency*.
- 3. Double click on the entry **browser.cache.check\_doc\_frequency**.
- 4. Change the Value to 1.
  - > 0: Check once per browser session
  - > 1: Check every time I view the page
  - > 2: Never check (always use cached page)
  - > 3 (default): Check when the page is out of date (automatically determined)

5. Click OK.



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Egham	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠
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United Kingdom	۰	٠	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	٠	٠	•	۰	٠	•	٠	٠	*	٠	٠	٠
Tel: +44 (0) 208 219 2190	٠	۰	٠	٠	٠	٠	۰	۰	۰	۰	٠	٠	٠	٠	٠	۰	۰	٠	٠	٠	٠	٠	٠	٠
Fax: +44 (0) 208 219 2199	۰	٠	٠	٠	٠	٠	۰	٠	۰	۰	٠	٠	٠	٠	•	۰	٠	٠	٠	٠	٠	٠	٠	٠
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