



# PREFACE

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Written and produced by the Oki Publications Department.

## EEC COMPATIBILITY



This product complies with the requirements of the Council Directives 89/336/EEC (EMC) and 73/23/EEC (LVD) as amended where applicable on the approximation of the laws of the member states relating to electromagnetic compatibility and low voltage.



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# CONFIGURATION

## INTRODUCTION

The OkiLAN 7300e is a fast 100BASE-TX/10BASE-T network interface card for the OKI C7100, C7200, C7300, C7400, C7500, C9200, C9300, C9400 and C9500 printers.

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

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

This section details the OkiLAN 7300e specification and several software utilities.

For multiple emulation printers, change the emulation in the Printer Menu settings to Auto or PS before printing the self-diagnostic test and settings.

## SPECIFICATION

CPU	Falcon
Memory	Flash ROM: 2 Mbyte RAM: 1 Mbyte
Frame types	IEEE 802.2 IEEE 802.3 Ethernet-II, SNAP, AUTO
Network interface	100BASE-TX 10BASE-T
Network protocols	TCP/IP Network layer            ARP, RARP, IP, ICMP Session layer            TCP, UDP Application layer        LPR, FTP, TELNET, HTTP, IPP, BOOTP, DHCP, SNMP, DNS, SMTP, POP3 IPX/SPX (NetWare) Remote printer mode (up to eight file servers and 32 queues) Print server mode (up to eight print servers) Encrypted password supported in print server mode SNMP EtherTalk ELAP, AARP, DDP, AEP, NBP, ZIP, RTMP, ATP, PAP NetBEUI SMB, NetBIOS
Functions	Self-diagnostic test printing Banner supported Monitoring/configure by Web browser Printer status notification by E-Mail

## SELF-DIAGNOSTIC TEST

With the printer power switched on, press the push-button for more than three seconds and release. The self-diagnostic test results and configuration settings are printed.

### Printed self-diagnostic test sample

```
EthernetBoard OkiLAN 7300e Version 1.1.0
*** Diagnostic report ***
ROM check: Ok stat:7C31 FFFF 0000 0000
RAM check: Ok stat:0000 0000 0000 0000
EEPROM Check: Ok stat:8954 8954 0000 0000
NIC check: Ok addr:00:80:92:00:13 9D 100BASE-TX
```

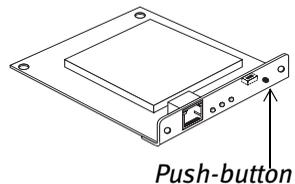
```
DIPSW1:OFF(ON:Test use only
DIPSW2:OFF(ON:Initialize configuration)
DIPSW3:OFF(ON:Reserved)
DIPSW4:OFF(ON:Diagnostic print)
```

**00:80:92:00:13:9D is the Ethernet address.**

If “NG” is displayed instead of “OK” see the “Troubleshooting” chapter.

### Printed configuration settings sample

```
OkiLAN 7300e Version 1.1.0
*** Configuration report ***
TCP/IP protocol:ENABLE
IP address:192.168.20.127
Subnet mask:255.255.255.0
Gateway address:192.168.20.1
RARP protocol:DISABLE
DHCP/BOOTP protocol:ENABLE
DNS server (Pri.):192.168.20.2
DNS server (Sec.):192.168.20.3
root password:""
Authentic community:"*****"
Trap communit:"public"
Trap address:0.0.0.0
SysContact:""
SysName:""
SysLocation:""
DefaultTTL:255
Enable AuthenTrap:2
Network protocol:ENABLE
OkiLan7300e Packet type:AUTO
```



```
NetWare mode:PSEVER
FSEVER name 1:""
FSEVER name 2:""
FSEVER name 3:""
FSEVER name 4:""
FSEVER name 5:""
FSEVER name 6:""
FSEVER name 7:""
FSEVER name 8:""
Machine name:"OL000139D"
Password:""
Job polling interval:""
Bindery mode:ENABLE
NDS context:""
NDS tree:""
FSEVER name 1:""
FSEVER name 2:""
FSEVER name 3:""
FSEVER name 4:""
FSEVER name 5:""
FSEVER name 6:""
FSEVER name 7:""
FSEVER name 8:""
Job timeout:10
EtherTalk protocol:ENABLE
Zone name:"*"
NetBEUI protocol:ENABLE
Computer name:"OL000139D"
Workgroup name:"PrintServer"
Comment:"EthernetBoard OkiLAN 7300e"
NetWare port name:"OL00139D-prn1"
EtherTalk port name:"C7300"
BOJ string:""
EOJ string:""
BOJ string(euc/sjis):""
EOJ string(euc/sjis):"x04"
Printer type:PS
TAB size (char.):8
Page width(char.):78
Page length(line):66
lpr/ftp banner:NO
Prn-Trap Community:"public"
TCP#1 Trap enable:DISABLE
On-line trap:DISABLE
Off-line trap:DISABLE
Paper Out trap:DISABLE
Paper Jam trap:DISABLE
Cover Open trap:DISABLE
```

Printer Error trap:DISABLE  
TCP#1 Trap address:0.0.0.0  
TCP#2 Trap enable:DISABLE  
On-line trap:DISABLE  
Off-line trap:DISABLE  
Paper Out trap:DISABLE  
Paper Jam trap:DISABLE  
Cover Open trap:DISABLE  
Printer Error trap:DISABLE  
TCP#2 Trap address:0.0.0.0  
TCP#3 Trap enable:DISABLE  
On-line trap:DISABLE  
Off-line trap:DISABLE  
Paper Out trap:DISABLE  
Paper Jam trap:DISABLE  
Cover Open trap:DISABLE  
Printer Error trap:DISABLE  
TCP#3 Trap address:0.0.0.0  
TCP#4 Trap enable:DISABLE  
On-line trap:DISABLE  
Off-line trap:DISABLE  
Paper Out trap:DISABLE  
Paper Jam trap:DISABLE  
Cover Open trap:DISABLE  
Printer Error trap:DISABLE  
TCP#4 Trap address:0.0.0.0  
TCP#5 Trap enable:DISABLE  
On-line trap:DISABLE  
Off-line trap:DISABLE  
Paper Out trap:DISABLE  
Paper Jam trap:DISABLE  
Cover Open trap:DISABLE  
Printer Error trap:DISABLE  
TCP#5 Trap address:0.0.0.0  
IPX Trap enable:DISABLE  
On-line trap:DISABLE  
Off-line trap:DISABLE  
Paper Out trap:DISABLE  
Paper Jam trap:DISABLE  
Cover Open trap:DISABLE  
Printer Error trap:DISABLE  
IPX Trap address:"000000000000"  
IPX Trap net:"00000000"  
SMTP Transmit:DISABLE  
SMTP Receive:DISABLE  
SMTP server name:""  
SMTP port number:25  
E-Mail address:""

Reply-To address:""  
Signature line 1:""  
Signature line 2:""  
Signature line 3:""  
Signature line 4:""  
To Address 1:""  
Re-send interval:DISABLE  
Off Line:DISABLE  
Consumable Message:DISABLE  
Toner Low/Out:DISABLE  
Paper Low/Out:DISABLE  
Paper Jam:DISABLE  
Cover Open:DISABLE  
Stacker Error:DISABLE  
Mass Storage Error:DISABLE  
Recoverable Error:DISABLE  
Service Call Req.:DISABLE  
To Address 2:""  
Re-send interval:DISABLE  
Off Line:DISABLE  
Consumable Message:DISABLE  
Toner Low/Out:DISABLE  
Paper Low/Out:DISABLE  
Paper Jam:DISABLE  
Cover Open:DISABLE  
Stacker Error:DISABLE  
Mass Storage Error:DISABLE  
Recoverable Error:DISABLE  
Service Call Req.:DISABLE  
To Address 3:""  
Re-send interval:DISABLE  
Off Line:DISABLE  
Consumable Message:DISABLE  
Toner Low/Out:DISABLE  
Paper Low/Out:DISABLE  
Paper Jam:DISABLE  
Cover Ope:DISABLE  
Stacker Error:DISABLE  
Mass Storage Error:DISABLE  
Recoverable Error:DISABLE  
Service Call Req.:DISABLE  
To Address 4:""  
Re-send interval:DISABLE  
Off Line:DISABLE  
Consumable Message:DISABLE  
Toner Low/Out:DISABLE  
Paper Low/Out:DISABLE  
Paper Jam:DISABLE

Cover Open:DISABLE  
Stacker Error:DISABLE  
Mass Storage Error:DISABLE  
Recoverable Error:DISABLE  
Service Call Req.:DISABLE  
To Address 5:""  
Re-send interval:DISABLE  
Off Line:DISABLE  
Consumable Message:DISABLE  
Toner Low/Out:DISABLE  
Paper Low/Out:DISABLE  
Paper Jam:DISABLE  
Cover Open:DISABLE  
Stacker Error:DISABLE  
Mass Storage Error:DISABLE  
Recoverable Error:DISABLE  
Service Call Req.:DISABLE  
POP3 protocol:DISABLE  
POP3 server:""  
POP port number:110  
POP3 server User ID:""  
POP3 server Password:""  
User APOP:NO  
Retrieve every(min.):OFF

# CONFIGURATION UTILITY

## AVAILABLE UTILITIES

You can configure the OkiLAN 7300e by using one of the following methods:

UTILITY	FEATURES	SYSTEM REQUIREMENTS
Quick Setup	<p>Configure the OkiLAN 7300e easily and simply without installing any software packages into your system. You can set the following: Enable/disable TCP/IP, NetWare, EtherTalk, NetBEUI protocols.</p> <ul style="list-style-type: none"><li>&gt; Set IP address, Subnet Mask and Gateway for TCP/IP manually or by using DHCP.</li><li>&gt; Set NetWare Mode and create Queue/Print Server/Printer objects.</li><li>&gt; Zone name and Port name for EtherTalk.</li></ul>	<p>Windows95/98/Me/NT4.0/2000/XP (TCP/IP protocol or IPX/SPX protocol should be installed).</p> <p>To create a NetWare queue, NetWare Client 32 or IntranetWare Client should be installed in your system.</p>
AdminManager	<p>Configure the OkiLAN 7300e in detail.</p>	<p>Windows95/98/Me/NT4.0/2000/XP (TCP/IP protocol or IPX/SPX protocol should be installed).</p> <p>To create a NetWare queue, NetWare Client 32 or IntranetWare Client should be installed in your system.</p>
Web browser	<p>Configure the OkiLAN 7300e and printer by using a Web browser such as Microsoft Internet browser or Netscape Navigator.</p>	<p>Microsoft Internet Explorer Version 3.0 and higher or Netscape Navigator Version 3.0 and higher.</p> <p>Operating system that supports Web browser.</p>
TELNET	<p>Configure the OkiLAN 7300e using TELNET.</p>	<p>Third-party vendor developed TELNET client package.</p> <p>A TELNET Application is standard in Windows/UNIX/Linux.</p>
SNMP	<p>The printer and network card can be controlled using third-party vendor developed SNMP application.</p>	<p>Third-party vendor developed SNMP application.</p>

## USING QUICK SETUP

Quick Setup utility allows you to configure the OkiLAN 7300e 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 Windows 95/98/Me, Windows 2000 Advanced Server/Professional or Windows NT Server 4.0/Workstation 4.0, Windows XP running TCP/IP or IPX/SPX (NetWare).

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

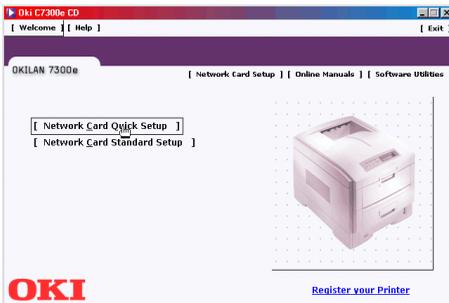
This utility must be used on a PC that is located in the same segment as the printer. To create a NetWare queue, NetWare Client 32 or IntranetWare Client should be installed in your system.

The following explanation uses Windows 98 as an example.

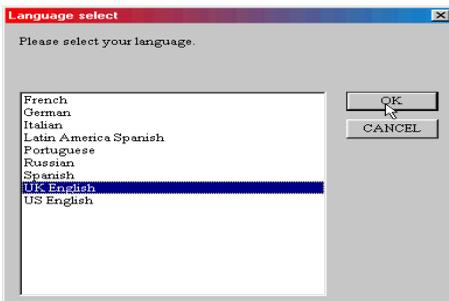
1. Insert the Network Software CD-ROM into the CD-ROM drive. The Setup Utility starts automatically. If it does not start, double-click *setup.exe* in the Windows folder on the CD-ROM.
2. Select [Network Card Setup]



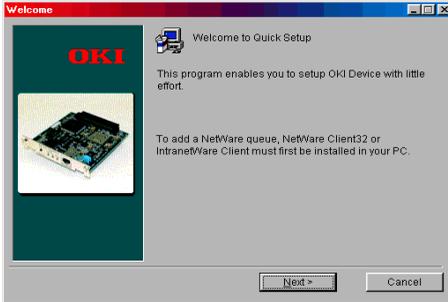
3. Select [Network Card Quick Setup].



4. Select the appropriate language.



5. Follow the on-screen instructions.



- › The NetWare Client 32 or IntranetWare Client should be installed on the PC used for the creation of network queues. Installation enables the user to create network queues and perform other functions.
6. If the settings are correct, click [Execute]. The new settings are transmitted to the network card but the network card is still operating with pre-transmission settings.
  7. Click [Finish] to validate the new settings. Depending on the model, the printer may have to be switched off and on again.

## USING ADMINMANAGER

AdminManager is a powerful Microsoft Windows-based utility to configure all of OkiLAN 7300e's functions easily and intuitively by using a graphical user interface.

Configuration requires a PC with Windows 95/98/Me, Windows 2000 Advanced Server/Professional or Windows NT Server 4.0/Work-station 4.0, Windows XP running TCP/IP or IPX/SPX (NetWare).

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

To create a NetWare queue, NetWare Client 32 or IntranetWare Client should be installed on to your system.

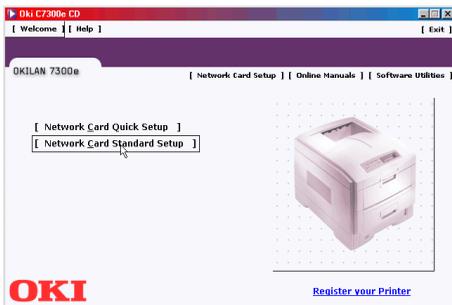
The following explanation uses Windows 98 as an example.

## INSTALLATION

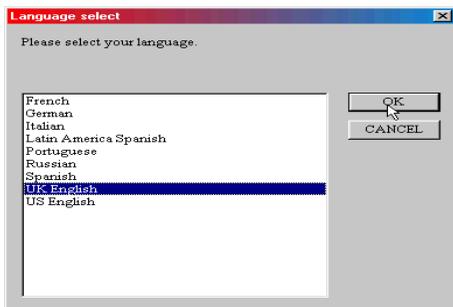
1. Insert the Network Software CD-ROM into the CD-ROM drive. The Setup Utility starts automatically. If it does not start, double-click *autorun.exe* in the Windows folder on the CD-ROM.
2. Select [Network Card Setup].



3. Select [Network Card Standard Setup].



4. Select the appropriate language.



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



6. To run AdminManager, check [Yes] for [Do you wish to execute AdminManager?] and click [Finish]. Otherwise, uncheck [No] and click [Finish].



# INTERFACE

Select [Start]-[Programs]-[OKI Setup Utility]-[Admin Manager].

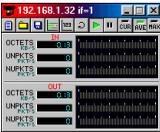
## FILE MENU

In the [File] menu, the following item can be selected:

ITEM	FUNCTION
Search	Search printers in your network and list all printers that have the OkiLAN7100e, 7100e+, 7200e and 7300e installed.

## STATUS MENU

In the [Status] menu, the following items can be selected:

ITEM	FUNCTION
Printer Status	Current printer status is displayed: 
System Status	Displays current OkiLAN 7300e configuration. Configuration data can be saved as log file. 
NetMeter	Display current network status. For further information, see on-line help file of NetMeter. 

ITEM	FUNCTION
List of Configuration Items	Displays current OkiLAN 7300e configuration. Configuration data can be saved as log file. 

## SETUP MENU

In this menu, the following items can be selected:

ITEM	FUNCTION
Oki Device Setup	Configure the OkiLAN 7300e.
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.  <b>Note:</b> The TELNET application is not included as part of the OkiLAN 7300e package. Install the TELNET package on to your system. For further information, see your Windows manual.
Create NetWare Queue	Create a NetWare queue.
Delete NetWare Object	Delete NetWare object.
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.

## OKI DEVICE SETUP

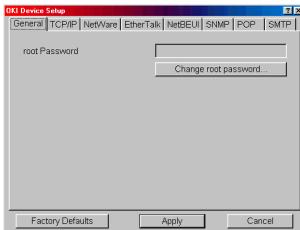
In this section you can configure the OkiLAN 7300e. It contains details for the following selectable tabs:

- › General
- › TCP/IP
- › NetWare
- › EtherTalk
- › NetBEUI
- › SNMP
- › POP (if your printer supports E-Mail reception)
- › SMTP

The following section explains each tab's functionality.

### General Tab

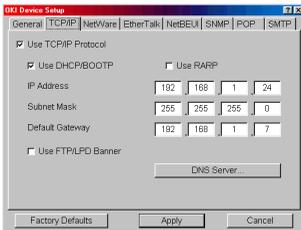
This allows you to set or change the root password used for Admin Manager, TELNET and FTP.



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

## TCP/IP Tab

This allows you to configure TCP/IP related items.

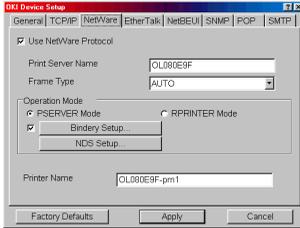


LOCATION	COMMENTS
Use TCP/IP Protocol	Set TCP/IP protocol as enabled/disabled.
Use DHCP/BOOTP	Check this item if IP address, subnet mask, default gateway and IP addresses for DNS primary server and secondary servers are retrieved from the DHCP or BOOTP server. Otherwise, uncheck.
Use RARP	Check this item if IP address is retrieved from the RARP server. Otherwise, uncheck.
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 FTP/LPD Banner	Check this item if you want to add the FTP/LPD banner. Otherwise, uncheck.
DNS Server . . .	Set IP addresses for DNS primary and secondary servers. 

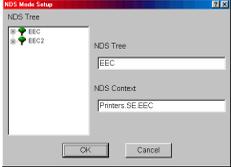
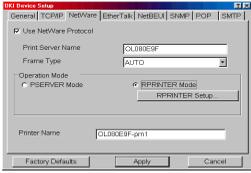
To find corresponding items in WEB and TELNET, see the equivalent in the Configurable Items and Default Values table that starts on page 59.

## Netware Tab

This is where you can configure NetWare related items.

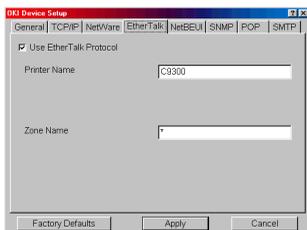


LOCATION	COMMENTS	
Use NetWare Protocol	Set NetWare protocol as enabled/disabled.	
Print Server Name	Set Print Server name.	
Frame Type	Set primary NetWare frame type.	
Operation Mode	Set NetWare mode.	
Check box besides Bindery Setup	Check if you want to use the Bindery mode and Bindery Setup button becomes available. If it is unchecked, the button is greyed out.	
Bindery Setup	Configure items related to Bindery mode.  	
	In this dialogue box, the following items can be configured.	
	Available File Server and Selected File Server.	Select file servers to connect. Up to eight file-servers can be selected. Select a server from Available file server list and click >> button. The server is copied to Selected file server box.
	Password.	Set password for Print Server.
Job Polling Time.	Set print job polling interval in seconds.	

LOCATION	COMMENTS	
NDS Setup	Set NDS tree and context where Print Server was created. 	
RPRINTER Setup	Available if you select RPRINTER mode in Operation Mode.  <p>By selecting the [RPRINTER] button, this is displayed:</p> 	
	NDS or Bindery	Show the Available print server tree in NDS mode or Bindery mode.
	Available print server and Selected print server	Select file servers to connect. Up to eight file servers can be selected. Select a server from Available file server list and click >> button. The server is copied to Selected file server box.
	Time Out	Set duration from the last data's arrival to freeing of the port in seconds.
Printer Name	Set the NetWare printer object name.	

## EtherTalk Tab

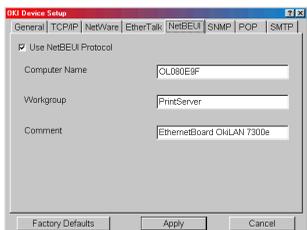
This allows you to configure EtherTalk related items



LOCATION	COMMENTS
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 OkiLAN 7300e belongs.

## NetBEUI Tab

This allows you to configure NetBEUI related items.



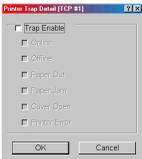
LOCATION	COMMENTS
Use NetBEUI Protocol	Set NetBEUI protocol to enabled/disabled.
Computer Name	Set a computer name for the OkiLAN 7300e.
Workgroup	Set a work group name to which the OkiLAN 7300e belongs.
Comment	Set the comments for the OkiLAN 7300e.

## SNMP Tab

This allows you to configure SNMP related items.

The screenshot shows the 'SNMP' configuration window. The 'Authentic Community' field is filled with '\*\*\*\*\*'. The 'TRAP Community' field is filled with 'public'. The 'TRAP Address' field is filled with '0.0.0.0'. The 'Default TTL' field is filled with '255'. The 'Enable Authen Trap' checkbox is unchecked. The 'Printer Trap Setup...' button is visible below the 'Default TTL' field.

LOCATION	COMMENTS
Authentic Community	This community name is used to check whether incoming SNMP requests have the correct community name or not. The community name is displayed as ***** for security reasons.
TRAP Community	This community name is assigned to outgoing system traps such as cold start, authentication failure, etc.
TRAP Address	Set a destination IP address of a Trap packet. If 0.0.0.0 is set, the Trap is disabled.
SysContact	Set SysContact (printer manager) name.
SysName	Set SysName (printer model name).
SysLocation	Set SysLocation (the location where the printer is installed).
Default TTL	Set TTL (Time To Live) value.
Enable Authentic Trap	Set Authentic Trap to enabled/disabled.

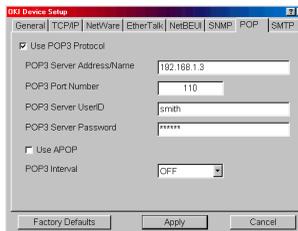
LOCATION	COMMENTS											
Printer Trap Setup . . .	<p>By selecting the button, the following dialogue box is displayed:</p>  <p>In the dialogue box, the following items can be configured:</p>											
Printer Trap Community Name	This community name is assigned to outgoing printer status traps such as off-line, paper out, etc.											
TCP#1—5	Set the IP address to which a Trap packet will be sent. You can set up to five IP addresses.											
Detail . . .	<p>By selecting the button, the following dialogue box is displayed:</p>  <p>In the dialogue box, the following items can be configured:</p> <table border="1" data-bbox="529 895 968 1402"> <tbody> <tr> <td data-bbox="529 895 748 1007">Trap Enable</td> <td data-bbox="748 895 968 1007">Set sending a Trap packet, enabled or disabled, for each destination.</td> </tr> <tr> <td data-bbox="529 1007 748 1118">On-line</td> <td data-bbox="748 1007 968 1118">Set sending a Trap, enabled or disabled, when the printer turns to ON-LINE.</td> </tr> <tr> <td data-bbox="529 1118 748 1230">Off-line</td> <td data-bbox="748 1118 968 1230">Set sending a Trap, enabled or disabled, when the printer turns to OFF-LINE.</td> </tr> <tr> <td data-bbox="529 1230 748 1318">Paper Out</td> <td data-bbox="748 1230 968 1318">Set sending a Trap, enabled or disabled, when paper is out.</td> </tr> <tr> <td data-bbox="529 1318 748 1402">Paper Jam</td> <td data-bbox="748 1318 968 1402">Set sending a Trap, enabled or disabled, when paper is out.</td> </tr> </tbody> </table>		Trap Enable	Set sending a Trap packet, enabled or disabled, for each destination.	On-line	Set sending a Trap, enabled or disabled, when the printer turns to ON-LINE.	Off-line	Set sending a Trap, enabled or disabled, when the printer turns to OFF-LINE.	Paper Out	Set sending a Trap, enabled or disabled, when paper is out.	Paper Jam	Set sending a Trap, enabled or disabled, when paper is out.
Trap Enable	Set sending a Trap packet, enabled or disabled, for each destination.											
On-line	Set sending a Trap, enabled or disabled, when the printer turns to ON-LINE.											
Off-line	Set sending a Trap, enabled or disabled, when the printer turns to OFF-LINE.											
Paper Out	Set sending a Trap, enabled or disabled, when paper is out.											
Paper Jam	Set sending a Trap, enabled or disabled, when paper is out.											

LOCATION	COMMENTS		
Printer Trap Setup ...	Detail ...	Cover Open	Set sending a Trap, enabled or disabled, when the printer cover opens.
		Printer Error	Set sending a Trap, enabled or disabled, when any errors occur.
	IPX	Set node address and network address to which a Trap packet will be sent.	
	Detail ...	<p>By selecting the button, the following dialogue box is displayed:</p>  <p>In the dialogue box, the following items can be configured:</p>	
		Trap Enable	Set sending a Trap packet, enabled or disabled, for each destination.
		On-line	Set sending a Trap, enabled or disabled, when the printer turns to ON-LINE.
		Off-line	Set sending a Trap, enabled or disabled, when the printer turns to OFF-LINE.
		Paper Out	Set sending a Trap, enabled or disabled, when paper is out.
	Paper Jam	Set sending a Trap, enabled or disabled, when a paper jam occurs.	

LOCATION	COMMENTS		
Printer Trap Setup . . .	Detail . . .	Cover Open	Set sending a Trap, enabled or disabled, when the printer cover opens.
		Printer Error	Set sending a Trap, enabled or disabled, when any errors occur.

## POP Tab

This allows you to configure POP related items.



LOCATION	COMMENTS
Use POP3 Protocol	Set retrieving E-Mail via POP3, enabled or disabled.
POP3 Server Address/Name	Set IP address or host name of POP3 server.
POP3 Port Number	Set port number of POP3.
POP3 Server UserID	Set User ID for POP3 server.
POP3 Server Password	Set password for POP3 server.
Use APOP	Check if you want to use APOP.
POP3 Interval	Set interval to retrieve E-Mail(s) from POP3 server. Set to OFF if you do not want to use POP3 function.

The OkilAN 7300e supports an email reception function (SMTP/POP3) allowing the printer to print PDF and text files attached to emails.

Not all printers support this function. If the POP tab is not displayed, your printer does not support this function.

## SMTP Tab

In SNMP Tab, you can configure SNMP related items.

The screenshot shows the 'SMTP' configuration window. It has a title bar 'Device Setup' and a tab 'SMTP'. The window contains several sections: 'Use SMTP Transmit Protocol' (checked), 'Use SMTP Receive Protocol' (unchecked), 'SMTP Server Address/Name' (EVALSERVER), 'Reply-To Address' (deleval@evalroom.fv.com), 'E-mail Address' (c8000@evalroom.fv.com), and an 'Events' section with five 'Event to Address' buttons. At the bottom are 'Factory Defaults', 'Apply', and 'Cancel' buttons.

LOCATION	COMMENTS
Use SMTP Transmit Protocol	Set sending E-Mail via SMTP, enabled or disabled.
Use SMTP Receive Protocol	Set receiving E-Mail via SMTP, enabled or disabled.
SMTP Server Address/Name	Set IP address or host name of SMTP server.
Reply-To Address	Set the E-Mail address that is used in the [Reply-To] field in the mail header.
E-Mail Address	Set the E-Mail address that is used in the [From] field in the mail header.

LOCATION	COMMENTS						
1–5	<p data-bbox="362 201 958 225">By selecting each button, the following dialogue box is displayed:</p>  <p data-bbox="362 483 893 507">In the dialogue box, the following items can be configured:</p> <table border="1" data-bbox="362 512 965 986"> <tr> <td data-bbox="362 512 557 794">Available condition and Selected condition</td> <td data-bbox="557 512 965 794"> <p data-bbox="564 515 874 539">Select each E-Mail alert condition.</p> <p data-bbox="564 541 958 644">Select a condition from Available Condition list and click &gt;&gt; button. The selected condition is copied to Selected condition list. Available conditions are:</p> <p data-bbox="564 646 958 788">Off line, Consumable Message, Toner Low/Out, Paper Low/Out, Paper Jam, Cover Open, Stacker Error, Mass Storage Error, Recoverable Error, Service Call Request and Finisher Error.</p> </td> </tr> <tr> <td data-bbox="362 794 557 879">To Address 1–5</td> <td data-bbox="557 794 965 879"> <p data-bbox="564 796 958 871">Set E-Mail addresses to that E-Mail should be send. Up to five E-Mail addresses can be set.</p> </td> </tr> <tr> <td data-bbox="362 879 557 986">Check Interval</td> <td data-bbox="557 879 965 986"> <p data-bbox="564 882 949 983">Set interval that the OkilAN 7300e checks specified event(s). An E-Mail is sent when specified event(s) occurs when DISABLE is selected.</p> </td> </tr> </table>	Available condition and Selected condition	<p data-bbox="564 515 874 539">Select each E-Mail alert condition.</p> <p data-bbox="564 541 958 644">Select a condition from Available Condition list and click &gt;&gt; button. The selected condition is copied to Selected condition list. Available conditions are:</p> <p data-bbox="564 646 958 788">Off line, Consumable Message, Toner Low/Out, Paper Low/Out, Paper Jam, Cover Open, Stacker Error, Mass Storage Error, Recoverable Error, Service Call Request and Finisher Error.</p>	To Address 1–5	<p data-bbox="564 796 958 871">Set E-Mail addresses to that E-Mail should be send. Up to five E-Mail addresses can be set.</p>	Check Interval	<p data-bbox="564 882 949 983">Set interval that the OkilAN 7300e checks specified event(s). An E-Mail is sent when specified event(s) occurs when DISABLE is selected.</p>
Available condition and Selected condition	<p data-bbox="564 515 874 539">Select each E-Mail alert condition.</p> <p data-bbox="564 541 958 644">Select a condition from Available Condition list and click &gt;&gt; button. The selected condition is copied to Selected condition list. Available conditions are:</p> <p data-bbox="564 646 958 788">Off line, Consumable Message, Toner Low/Out, Paper Low/Out, Paper Jam, Cover Open, Stacker Error, Mass Storage Error, Recoverable Error, Service Call Request and Finisher Error.</p>						
To Address 1–5	<p data-bbox="564 796 958 871">Set E-Mail addresses to that E-Mail should be send. Up to five E-Mail addresses can be set.</p>						
Check Interval	<p data-bbox="564 882 949 983">Set interval that the OkilAN 7300e checks specified event(s). An E-Mail is sent when specified event(s) occurs when DISABLE is selected.</p>						
Advanced . . .	<p data-bbox="362 994 941 1018">By selecting the button, the following dialogue box is displayed:</p>  <p data-bbox="362 1189 893 1212">In the dialogue box, the following items can be configured:</p> <table border="1" data-bbox="362 1217 965 1305"> <tr> <td data-bbox="362 1217 557 1249">SMTP Port Number</td> <td data-bbox="557 1217 965 1249"> <p data-bbox="564 1220 796 1244">Set port number of SMTP.</p> </td> </tr> <tr> <td data-bbox="362 1249 557 1305">Signature</td> <td data-bbox="557 1249 965 1305"> <p data-bbox="564 1252 938 1302">Set up to four signature lines. Signatures added to the bottom of an E-Mail.</p> </td> </tr> </table>	SMTP Port Number	<p data-bbox="564 1220 796 1244">Set port number of SMTP.</p>	Signature	<p data-bbox="564 1252 938 1302">Set up to four signature lines. Signatures added to the bottom of an E-Mail.</p>		
SMTP Port Number	<p data-bbox="564 1220 796 1244">Set port number of SMTP.</p>						
Signature	<p data-bbox="564 1252 938 1302">Set up to four signature lines. Signatures added to the bottom of an E-Mail.</p>						

## CREATE A NETWARE QUEUE

By selecting this item, you can create a NetWare queue on the NetWare server from AdminManager.

- › NetWare Client 32 or IntranetWare Client should be loaded on the PC on which the AdminManager runs. Also the client package should be configured to access NetWare NDS network or bindery network.
  - › You should login to NetWare servers as a user who can create objects on the servers. If you want to create a queue with the remote printer mode on NetWare 4.1, you should select NDS mode. You cannot create a queue if Bindery mode is selected.
1. Select [Create NetWare Queue] from the [Setup] menu.
  2. Select [Next] button.



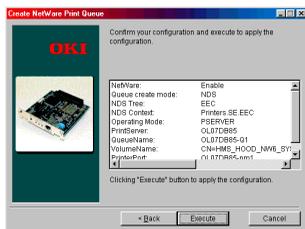
3. Select either [NDS mode] or [Bindery] mode depending on your network environment.



4. Follow the on-screen instructions.

MODE	LOCATION	PSEVER/ RPRINTER	PRINT SERVER	QUEUE	PRINTER
NDS	Context should be specified.	PSEVER mode	Current Print Server name is used.	Set queue name and its volume for the queue creation.	Current Printer name is used.
		RPRINTER mode	Select existing Print Server.	Set queue name and its volume for the queue creation.	Current Printer name is used.
Bindery	File server should be specified.	PSEVER mode only	Current Print Server name is used.	Set queue name for the queue creation.	Current Printer name is used.

5. Confirm your configuration. If it is correct, select [Execute].



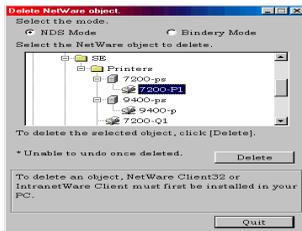
6. Select [Finish] button. If necessary, select [Setup]—[OKI Device Setup] and continue your configuration.

## DELETE NETWARE OBJECT

By selecting this item, you can delete a NetWare queue/print server/printer from NetWare server by AdminManager.

› NetWare Client 32 or IntranetWare Client should be loaded on to the PC on which the AdminManager runs. Also, the client package should be configured to access NetWare NDS network or bindery network. You should login to NetWare servers as a user who can delete objects on the servers.

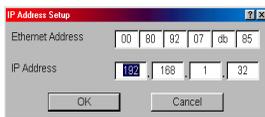
1. Select [Delete NetWare Object] from [Setup] menu.
2. Select an object you want to delete and click [Delete] button.
3. To exit from this dialogue box, select [Quit].



## IP ADDRESS SETUP

If you only use TCP/IP and the OkiLAN 7300e has not yet been configured, occasionally it may not be displayed on AdminManager. You can configure the IP address of the OkiLAN 7300e by this function.

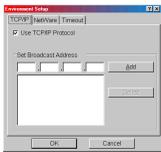
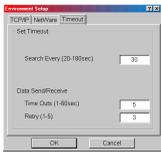
1. Select [IP Address Setup] from the [Setup] menu.
2. Set [Ethernet Address] and [IP Address] and select [OK].



- › The Ethernet Address (MAC address) is displayed during the self-diagnostic test.
3. AdminManager asks whether you want to initialise the network interface card or not. Select [Yes]. Even if you select [No] here, the IP address that you set can be used after turning the printer OFF and ON. The requirement to turn your printer OFF and ON is dependent on the network interface card.

## OPTION MENU

In the [Option] menu, the following item can be selected:

ITEM	FUNCTION	
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	<b>TCP/IP Tab</b> 	Set broadcast addresses that are used to search OKI network interface cards using the TCP/IP protocol. If [Use TCP/IP protocol] is unchecked, the search will not be carried out using TCP/IP.
	<b>NetWare Tab</b> 	Set network addresses that are used to search OKI network interface cards via NetWare protocol. If there any many NetWare file servers on your network, specify the network address to which the network card belongs. If [Use NetWare protocol] is unchecked, the search will not be carried out using NetWare, but if [Auto Search] is selected, AdminManager will search all networks that AdminManager can detect.
	<b>TimeOut Tab</b> 	<p>[Search Every]: Set response waiting time from a network card in seconds.</p> <p>[Time Out]: Set time out between AdminManager and the network interface card in seconds.</p> <p>[Retry]: Set how many times the retry will be carried out between AdminManager and the network interface card.</p>

## HELP MENU

In the [Help] menu, [About] is available as well as revision information for AdminManager.

## USING A WEB BROWSER

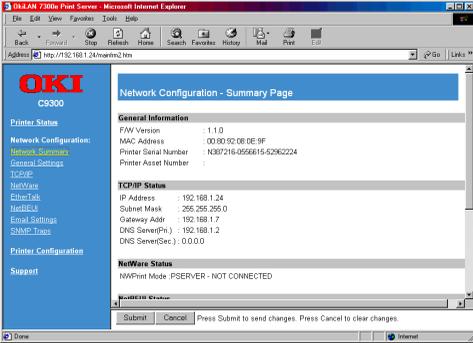
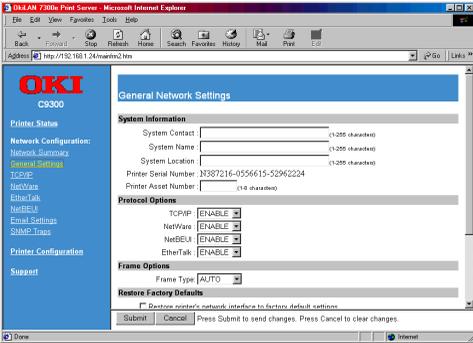
If the OkiLAN 7300e is connected to the network using TCP/IP, its settings and the printer menu settings can be configured using a Web browser, such as Microsoft Internet Explorer Version 3.0 and higher, or Netscape Navigator version 3.0 and higher. No guarantees are offered for other browsers. Refer to the relevant manuals for details of how to launch and use the browser.

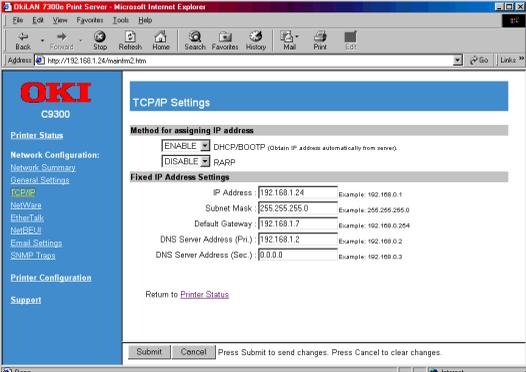
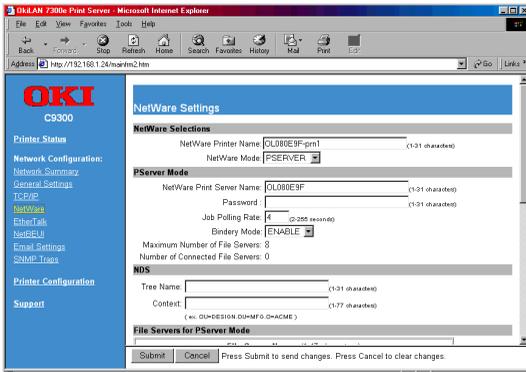
The network addresses used in this manual are shown as examples only. Network addresses used in your installation must be generated from your own network. To apply configuration changes using a Web browser, you will be prompted for a username and password. The username is [root] and the default password is the last six digits of the Ethernet address.

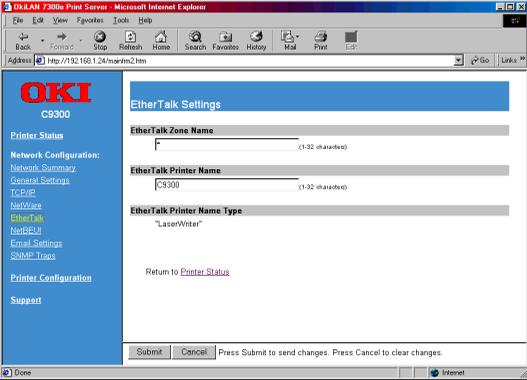
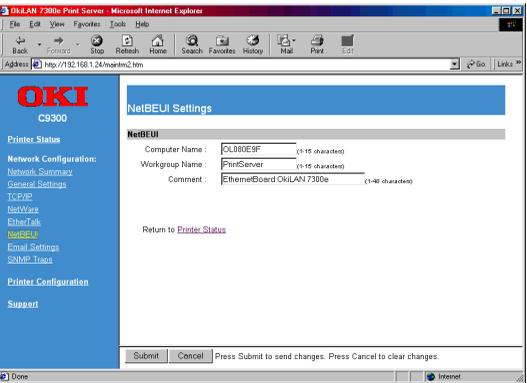
The following explanation uses Windows 95 and Microsoft Internet Explorer version 4.0 with the C7400 as an example.

1. Configure the IP Address, Subnet Mask and Gateway for the network card. Launch the Web browser, enter the IP Address of the network interface card in [Address (Location/Position)] and press the [Enter] key. The Printer Status screen is displayed.
2. Click the items to be changed in the left column. For more details of corresponding items in WEB and TELNET equivalents, see the description in the *Configurable Items and Default Values* table starting on page 59.

# NETWORK CONFIGURATIONS

PAGE	CATEGORY	ITEM	REF. NO.
Network Summary		 <p>The screenshot shows the 'Network Configuration - Summary Page' for an OKI C9300 printer. The page is displayed in a Microsoft Internet Explorer browser window. The left sidebar contains navigation links: Printer Status, Network Configuration (selected), General Settings, TCP/IP, NetWare, EtherTalk, NetBEUI, Email Settings, SNMP Traps, Printer Configuration, and Support. The main content area is divided into three sections:         <ul style="list-style-type: none"> <li><b>General Information:</b> FW Version: 1.1.0, MAC Address: 00:80:30:00:0E:9F, Printer Serial Number: N387216-0556615-52962224, Printer Asset Number: (blank).</li> <li><b>TCP/IP Status:</b> IP Address: 192.168.1.24, Subnet Mask: 255.255.255.0, Gateway Addr.: 192.168.1.7, DNS Server(Pr): 192.168.1.2, DNS Server(Sec.): 0.0.0.0.</li> <li><b>NetWare Status:</b> NWP/Print Mode: PSERVER - NOT CONNECTED.</li> </ul>         At the bottom, there are 'Submit' and 'Cancel' buttons, and a message: 'Press Submit to send changes. Press Cancel to clear changes.'       </p>	
General Settings		 <p>The screenshot shows the 'General Network Settings' page for an OKI C9300 printer. The left sidebar is identical to the previous screenshot. The main content area includes:         <ul style="list-style-type: none"> <li><b>System Information:</b> System Contact, System Name, System Location, Printer Serial Number (N387216-0556615-52962224), and Printer Asset Number (all with '(1255 characters)' next to them).</li> <li><b>Protocol Options:</b> TCP/IP (ENABLE), NetWare (ENABLE), NetBEUI (ENABLE), and EtherTalk (ENABLE).</li> <li><b>Frame Options:</b> Frame Type (AUTO).</li> <li><b>Restore Factory Defaults:</b> A checkbox labeled 'Restore printer's network interface to factory default options'.</li> </ul>         At the bottom, there are 'Submit' and 'Cancel' buttons, and a message: 'Press Submit to send changes. Press Cancel to clear changes.'       </p>	
	System Information	System Contact	SNMP-4
		System Name	SNMP-5
		System Location	SNMP-6
		Printer Serial Number	ETC-4
		Printer Asset Number	ETC-5
	Protocol Options	TCP/IP	TCPIP-1
		NetWare	NetWare-1
		EtherTalk	EtherTalk-1
		NetBEUI	NetBEUI-1
	Frame Options	Frame Type	NetWare-2
	Restore Factory Defaults		ETC-1

PAGE	CATEGORY	ITEM	REF. NO.
TCP/IP		 <p>The screenshot shows the 'TCP/IP Settings' page for an OKI C9300 printer. It includes sections for 'Method for assigning IP address' (with 'ENABLE' checked for DHCP/BOOTP and 'DISABLE' checked for RARP), and 'Fixed IP Address Settings' with fields for IP Address (192.168.1.24), Subnet Mask (255.255.255.0), Default Gateway (192.168.1.7), DNS Server Address (Pri.) (192.168.1.2), and DNS Server Address (Sec.) (0.0.0.0).</p>	
	Method for assigning IP Address	DHCP/BOOTP	TCPIP-6
		RARP	TCPIP-5
	Fixed IP Address Settings	IP Address	TCPIP-2
		Subnet Mask	TCPIP-3
		Default Gateway	TCPIP-4
		DNS Server Address (Pri.)	TCPIP-7
		DNS Server Address (Sec.)	TCPIP-8
NetWare		 <p>The screenshot shows the 'NetWare Settings' page for an OKI C9300 printer. It includes sections for 'NetWare Selections' (NetWare Printer Name: CLONIE:IP-gm1, NetWare Mode: PSERVER), 'PServer Mode' (NetWare Print Server Name: CLONIE:IP, Password, Job Polling Rate: 4, Bindery Mode: ENABLE), and 'NDS' (Tree Name, Content).</p>	
	NetWare Selections	NetWare Printer Name	Port-1
		NetWare Mode	NetWare-3
	PServer Mode	NetWare Print Server Name	NetWare-5
		Password	NetWare-6
		Job Polling Rate	NetWare-7
		Bindery Mode	NetWare-8

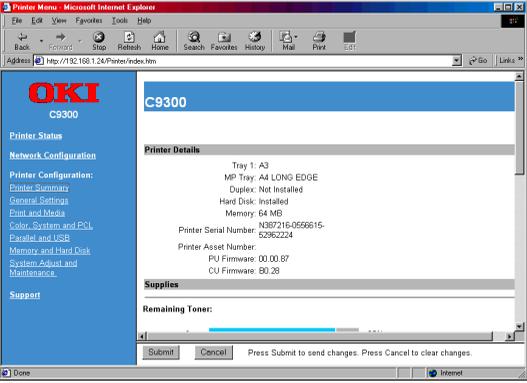
PAGE	CATEGORY	ITEM	REF. NO.
NetWare	Tree Name	Tree Name	NetWare-9
	NDS	Context	NetWare-10
	File Server for PServer Mode	File Server Names	NetWare-4
	Remote Printer Mode	Job Timeout	NetWare-12
NetWare Print Server Names		NetWare-11	
EtherTalk			
	EtherTalk Zone Name	EtherTalk-2	
	EtherTalk Printer Name	Port-2	
NetBEUI			
	NetBEUI	Computer Name	NetBEUI-2
		Workgroup Name	NetBEUI-3
		Comment	NetBEUI-4

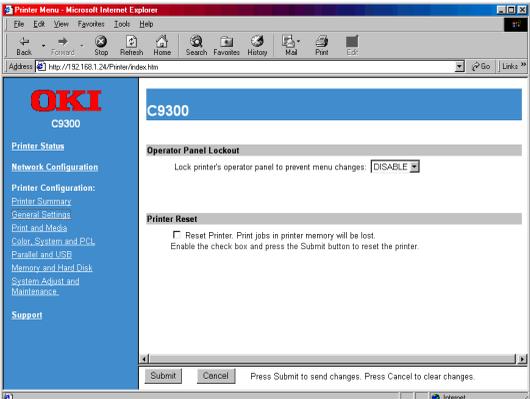
PAGE	CATEGORY	ITEM	REF. NO.
E-Mail Settings			
	E-Mail Receive Settings	SMTP Receive	SMTP-2
		POP Protocol	POP-1
		POP Server Name	POP-2
		POP Account	POP-4
		POP Password	POP-5
		POP Port Number	POP-3
		POP Receive Interval	POP-7
		APOP Support	POP-6
	E-Mail Transmit Settings	SMTP Transmit	SMTP-1
		SMTP Server	SMTP-3
		Printer E-Mail Address	SMTP-5
		Reply-To-Address	SMTP-6
		SMTP Port Number	SMTP-4
	E-Mail Recipients	E-Mail Address 1—5	SMTP-7
	E-Mail Alert Assignments	Re-send Interval	SMTP-8
		Off-Line	SMTP-9
		Consumable Message	SMTP-10
		Toner Low Toner Out	SMTP-11
		Paper Low Paper Out	SMTP-12
		Paper Jam	SMTP-13
		Cover Open	SMTP-14
		Stacker Error	SMTP-15
		Mass Storage Error	SMTP-16
		Finisher Error	SMTP-19
		Recoverable Error	SMTP-17
		Service Call Required	SMTP-18
E-Mail Signature	Signature line 1—4	SMTP-20	

PAGE	CATEGORY	ITEM	REF. NO.
SNMP Traps			
	MIB-II Information	Authentic Community	SNMP-1
		Trap Community	SNMP-2
		Trap IP Address	SNMP-3
		Enable Authen Traps	SNMP-8
	Trap Destination	Printer Trap Community Name	Trap-1
		Address 1—5	Trap-9
		IPX	Trap-17, Trap-18
	Trap Assignments	Trap Enable	Trap-2, Trap-10
		On-line	Trap-3, Trap-11
		Off-line	Trap-4, Trap-12
		Paper Out	Trap-5, Trap-13
		Paper Jam	Trap-6, Trap-14
		Cover Open	Trap-7, Trap-15
		Printer Error	Trap-8, Trap-16

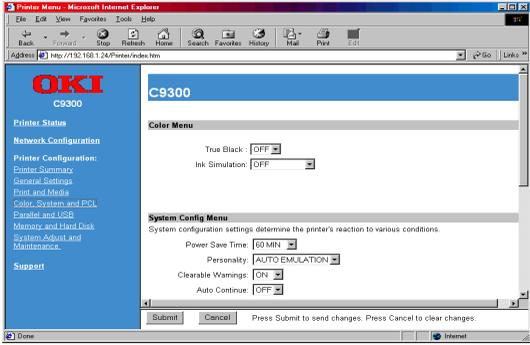
You can also configure the printer settings. Printer setting items are varied depending on the printer model and installed options. For more details of each item, see printer user manual.

# PRINTER CONFIGURATION

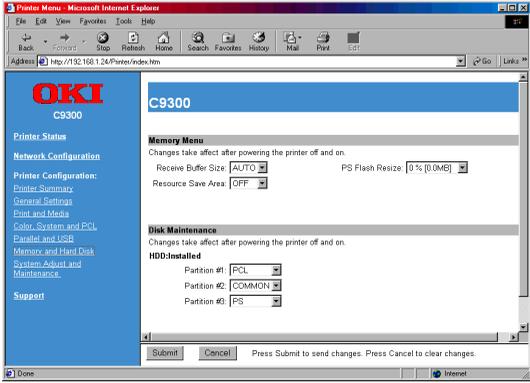
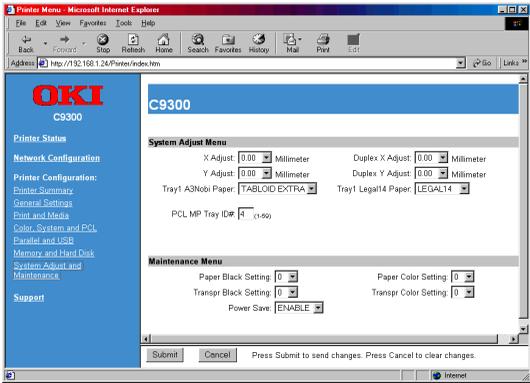
PAGE	CATEGORY	ITEM	TYPE	COMMENT
Printer Summary				
	Printer Details	Tray 1	Read only	
		Tray 2—5	Read only	Available when optional tray installed.
		MP Tray	Read only	—
		Duplex	Read only	—
		Hard Disk	Read only	—
		Memory	Read only	—
		Printer Serial Number	Read only	—
		Printer Asset Number	Read only	—
		PU Firmware	Read only	—
		CU Firmware	Read only	—
	Supplies	Total Page Count	Read only	—
		Tray 1 Page Count	Read only	—
		Tray 2—5 Page Count	Read only	Available when optional tray installed.
		MP Page Count	—	—
		Cyan Impressions	Read only	—

PAGE	CATEGORY	ITEM	TYPE	COMMENT
Printer Summary	Supplies	Magenta Impression	Read only	—
		Yellow Impressions	Read only	—
		Black Impressions	Read only	—
		Belt Unit	Read only	—
		Fuser Unit	Read only	—
		Drum Life Remaining	Read only	—
		Transfer Belt and Fuser Life Remaining	Read only	—
		Remaining Toner	Read only	—
General Settings				
	Operator Panel Lockout	—	Selectable	—
Printer Reset	—	Check box	—	

PAGE	CATEGORY	ITEM	TYPE	COMMENT	
Print and Media					
	Print Menu	Copies	Value	—	
		Duplex	Selectable	—	
		Binding	Selectable	—	
		Output Bin	Selectable	—	
		Job Offset	Selectable	—	
		Paper Feed Tray	Selectable	—	
		Auto Tray Switch	Selectable	—	
		Tray Sequence	Selectable	—	
		MP Tray Usage	Selectable	—	
		Media Check	Selectable	—	
		Resolution	Selectable	—	
		Toner Save Mode	Selectable	—	
		Mono Print Speed	Selectable	—	
		Orientation	Selectable	—	
		Lines Per Page	Value	—	
		Edit Size	Selectable	—	
		Media Menu	Paper Size	Read only/ Selectable	—
			Media Type	Selectable	—
			Media Weight	Selectable	—
	User Media Type Set	User Media Type 1—5	Value	—	
	Custom Paper Size	Unit of Measure	Radio button	—	
		X Dimension	Value	—	
		Y Dimension	Value	—	

PAGE	CATEGORY	ITEM	TYPE	COMMENT
Colour, System and PCL				
	Colour Menu	True Black	Selectable	—
		Auto Registration	Selectable	—
		Ink Simulation	Selectable	—
	System Config Menu	Power Save Time	Selectable	—
		Personality	Selectable	—
		Clearable Warning	Selectable	—
		Auto Continue	Selectable	—
		Manual Timeout	Selectable	—
		Wait Timeout	Value	—
		Low Toner	Selectable	—
		Jam Recovery	Selectable	—
		Error Report	Selectable	—
	PCL Emulation Menu	Language	Selectable	—
		Font Source and Number	Selectable	—
		Font Pitch	Value	—
		Font Height	Value	—
		Symbol Set	Selectable	—
		A4 Print Width	Selectable	—
		White Page Skip	Selectable	—
		CR Function	Selectable	—
	LF Function	Selectable	—	
	Print Margin	Selectable	—	
	Pen Width Adjust	Selectable	—	

PAGE	CATEGORY	ITEM	TYPE	COMMENT
Parallel and USB				
	Parallel Menu	Parallel	Selectable	—
		BI-direction	Selectable	—
		ECP	Selectable	—
		Ack Width	Selectable	—
		Ack/Busy Timing	Selectable	—
		I-PRIME	Selectable	—
	USB Menu	USB	Selectable	—
		Soft Reset	Selectable	—

PAGE	CATEGORY	ITEM	TYPE	COMMENT
Memory and Hard Disk				
	Memory Menu	Receive Buffer Size	Selectable	—
		Resource Save Area	Selectable	—
		PS Flash Resize	Selectable	—
	Disk Maintenance	Partition #1	Selectable	—
		Partition #2	Selectable	—
		Partition #3	Selectable	—
				

PAGE	CATEGORY	ITEM	TYPE	COMMENT
System Adjust and Maintenance	System Adjust Menu	X Adjust	Selectable	—
		Y Adjust	Selectable	—
		Duplex X Adjust	Selectable	—
		Duplex Y Adjust	Selectable	—
		Tray 1 A3 Nobi Paper	Selectable	C9300, C9500 only
		Tray 1 Legal14 Paper	Selectable	—
		Tray1 A5/A6 Paper	Selectable	—
		Tray2—5 A3 Nobi Paper	Selectable	Available when optional tray is installed.
		Tray 2—5 Legal14 Paper	Selectable	Available when optional tray is installed.
		Tray2—5 A5/A6 Paper	Selectable	Available when optional tray is installed.
	System Adjust Menu	PCL Tray 2—5 ID#	Selectable	Available when optional tray is installed.
		PCL MP Tray ID#	Selectable	—
	Maintenance Menu	Power Save	Selectable	—
		Paper Black Setting	Selectable	—
		Paper Colour Setting	Selectable	—
Transpr Back Setting		Selectable	—	
Transpr Colour Setting		Selectable	—	
Finisher Menu	Finisher Menu	Output Bin	Selectable	—
		Staple Mode	Selectable	—
		Punch Mode	Selectable	—
		Punch Hole Number	Read Only	—

PAGE	CATEGORY	ITEM	TYPE	COMMENT
Finisher Menu	Finisher Usage Menu	Staple Count	Read Only	—
		Punch Count	Read Only	—
		Finisher Count	Read Only	—
		Staple Remaining	Read Only	—
		Punch Remaining	Read Only	—
		Finisher Remaining	Read Only	—

3. To ensure correct operation, follow the procedure below for the appropriate network browser.

#### **Microsoft Internet Explorer**

- a. Select [Internet Options] in the [Tools] menu.
- b. Click on the [General] tab and click [Settings] in [Temporary Internet files].
- c. Select [Every visit to the page] in [Check for newer versions of stored programs].

#### **Netscape Navigator**

- a. Select [Settings] in the [Edit] menu
- b. Click [Cache] in [Details].
- c. Select [Once per session] in [Document in cache is compared to document on network].

If you change the window size of the browser immediately after changing the configuration, the [Security information] may be displayed. Uncheck [Display this message next time] in the dialogue.

4. After making changes, click [Submit].

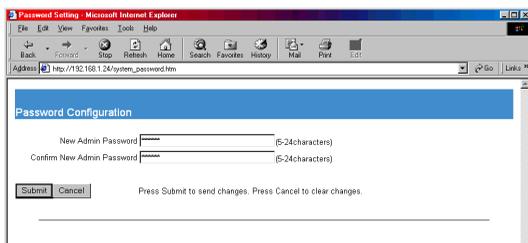
5. Enter [root] in User name and your password (default is the last six digits of the Ethernet address) in Password and click [OK].

*For example:* For Ethernet address 00:80:92:01:00:D2, a default password is [0100D2]. The Ethernet address (MAC address) is displayed during the self-diagnostic test.

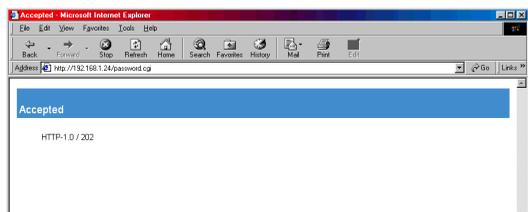
6. After the new values are transmitted to the network card, the following screen is displayed. If a different message is displayed, check the settings.

The root password can be changed to allow you to configure the OkILAN 7300e and printer by using a Web browser. The default password is the last six digits of the MAC address.

To change the root password for configuration via a Web browser, access [[http://OKILAN 7300e IP address or hostname/system\\_password.htm](http://OKILAN_7300e_IP_address_or_hostname/system_password.htm)]. After inputting the current root password, this screen is displayed:



Input a new root password in [New Admin Password] and [Confirm New Admin Password] then select [Submit] button. If your request is successfully processed, the following screen is displayed:



The root password for configuration via Web browser is different for AdminManager/TELNET/FTP. These passwords can be set in AdminManager or TELNET.

## USING TELNET

The OkiLAN 7300e can be configured using TELNET. TELNET requires the OkiLAN 7300e to have a valid IP address configured. If the NIC already has an IP address configured, skip steps one to three below.

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

The following explanation uses Sun Solaris 2.4 as an example. The method of configuring commands may differ between workstations. Refer to the workstation's manual.

1. Login as [root].

If you do not have Superuser rights, the network manager should run the configuration.

2. Set a temporary IP Address on the NIC using the ARP command.

*Example: for IP address 192.168.20.127 and network card address 00:80:92:01:00:D2*

```
# arp -s 192.168.20.127 00:80:92:01:00:D2 temp
```

The Ethernet address (MAC address) is displayed during the self-diagnostic test. A temporary address does not need to be set if an IP address has already been set.

3. Use the PING command to confirm the connection with the network 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 been already set manually or DHCP/RARP server may run), or with the network. Reset the network interface card settings to default and try to set temporary IP address. If you still have the problem after resetting the network interface card, consult the network manager.

#### 4. Login to the network card using TELNET.

*Example: for 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 '^]'.
EthernetBoard OkilAN 7300e".
login: root
'root' user needs password to login.
password:
User 'root' logged in.
No. Message Value (level.1)
```

```
-----
1:Setup TCP/IP
2:Setup SNMP
3:Setup NetWare
4:Setup EtherTalk
5:Setup NetBEUI
6:Setup printer port
7:Display Status
8:Setup printer trap
9:Setup SMTP (E-Mail)
97:Reset to factory set
98:Quit setup
99:Exit setup
Please select (1-99)?
```

5. Enter the number of the items to be changed and the details screen for that item is displayed. The menu has the following hierarchical structure so for more details see the description in the appropriate numbers

## TELNET HIERARCHICAL STRUCTURE.

LEVEL1	LEVEL2	LEVEL3	REF NO.	
1: Setup TCP/IP	1: TCP/IP protocol	—	TCPIP-1	
	2: IP address	—	TCPIP-2	
	3: Subnet	—	TCPIP-3	
	4: Gateway	—	TCPIP-4	
	5: RARP protocol	—	TCPIP-5	
	6: DHCP/BOOTP protocol	—	TCPIP-6	
	7: DNS server(Pri.)	—	TCPIP-7	
	8: DNS server(Sec.)	—	TCPIP-8	
	9: Root password	—	TCPIP-9	
	99: Back to prior menu	—	—	
2: Setup SNMP	1: Authentic community	—	SNMP-1	
	2: Trap community	—	SNMP-2	
	3: Trap address	—	SNMP-3	
	4: SysContact	—	SNMP-4	
	5: SysName	—	SNMP-5	
	6: SysLocation	—	SNMP-6	
	7: DefaultTTL	—	SNMP-7	
	8: EnableAuthenTrap	—	SNMP-8	
	99: Back to prior menu	—	—	
3: Setup NetWare	1: NetWare protocol	—	NetWare-1	
	2: Packet type	—	NetWare-2	
	3: NetWare mode	—	NetWare-3	
	4: Setup PSERVER mode	1: FSERVER name 1	—	NetWare-3
		2: FSERVER name 2	—	NetWare-4
		3: FSERVER name 3	—	NetWare-4
		4: FSERVER name 4	—	NetWare-4
		5: FSERVER name 5	—	NetWare-4
		6: FSERVER name 6	—	NetWare-4
		7: FSERVER name 7	—	NetWare-4
		8: FSERVER name 8	—	NetWare-4
		9: Machine name	—	NetWare-5
		10: Password	—	NetWare-6
		11: Job polling interval	—	NetWare-7
		12: Bindery mode	—	NetWare-8
13: NDS tree		—	NetWare-9	
14: NDS context		—	NetWare-10	
99: Back to prior menu	—	—		

LEVEL1	LEVEL2	LEVEL3	REF NO.
3: Setup Netware	5: Setup RPRINTER mode	1: PSERVER name 1	NetWare-11
		2: PSERVER name 2	NetWare-11
		3: PSERVER name 3	NetWare-11
		4: PSERVER name 4	NetWare-11
		5: PSERVER name 5	NetWare-11
		6: PSERVER name 6	NetWare-11
		7: PSERVER name 7	NetWare-11
		8: PSERVER name 8	NetWare-11
		9: Job timeout	NetWare-12
		99: Back to prior menu	—
4: Setup EtherTalk	1: EtherTalk protocol	—	EtherTalk-1
		2: Zone name	EtherTalk-2
		99: Back to prior menu	—
5: Setup NetBEUI	1: NetBEUI protocol	—	NetBEUI-1
		2: Computer name	NetBEUI-2
		3: Workgroup name	NetBEUI-3
		4: Comment	NetBEUI-4
		99: Back to prior menu	—
6: Setup printer port	1: NetWare port name	—	Port-1
		2: EtherTalk port name	Port-2
		3: BOJ string	Port-3
		4: EOJ string	Port-4
		5: BOJ string(KANJI)	Port-5
		6: EOJ string(KANJI)	Port-6
		7: Printer type	Port-7
		8: TAB size (char.)	Port-8
		9: Page width (char.)	Port-9
		10: Page length(line)	Port-10
		11: lpr/ftp banner	Port-11
		99: Back to prior menu	—
7: Display status	1: prn1	—	STATUS-1
		2: system	STATUS-2

LEVEL1	LEVEL2	LEVEL3	REF NO.	
8: Setup printer trap	1: Prn-Trap community	—	Trap-1	
		1: TCP#1—5 Trap enable	Trap-2	
	2: Setup TCP#1 trap 3: Setup TCP#2 trap 4: Setup TCP#3 trap 5: Setup TCP#4 trap	2: On-line trap	Trap-3	
		3: Off-line trap	Trap-4	
		4: Paper Out trap	Trap-5	
		5: Paper Jam trap	Trap-6	
		6: Cover Open trap	Trap-7	
		7: Printer Error trap	Trap-8	
		8: TCP#1—5 Trap address	Trap-9	
		99: Back to prior menu	—	
		7: Setup IPX trap	1: IPX Trap enable	Trap-10
			2: On-line trap	Trap-11
			3: Off-line trap	Trap-12
			4: Paper Out trap	Trap-13
			5: Paper Jam trap	Trap-14
			6: Cover Open trap	Trap-15
			7: Printer Error trap	Trap-16
			8: IPX Trap address	Trap-17
			9: IPX Trap net	Trap-18
99: Back to prior menu	—			
9: Setup SMTP(E-Mail)	1: SMTP Transmit	—	SMTP-1	
	2: SMTP Receive	—	SMTP-2	
	3: SMTP server name	—	SMTP-3	
	4: SMTP port number	—	SMTP-4	
	5: E-Mail address	—	SMTP-5	
	6: Reply-to address	—	SMTP-6	
	7: Event to address 1 8: Event to address 2 9: Event to address 3 10: Event to address 4 11: Event to address 5	1: To Address 1—5	SMTP-7	
		2: Re-send Interval	SMTP-8	
		3: Off-Line	SMTP-9	
		4: Consumable Message	SMTP-10	
		5: Toner Low/Out	SMTP-11	
		6: Paper Low/Out	SMTP-12	
		7: Paper Jam	SMTP-13	
		8: Cover Open	SMTP-14	
		9: Stacker Error	SMTP-15	
		10: Mass Storage Error	SMTP-16	
		11: Recoverable Error	SMTP-17	
		12: Service Call Req.	SMTP-18	
		13: Finisher	SMTP-19	
99: Back to prior menu	—			

LEVEL1	LEVEL2	LEVEL3	REF No.
9: Setup SMTP(E-Mail)	12: Signature line 1 13: Signature line 2 14: Signature line 3 15: Signature line 4	—	SMTP-20
	99: Back to prior menu	—	—
10: Setup POP (E-Mail)	1: POP3 protocol	—	POP-1
	2: POP3 server	—	POP-2
	3: POP port number	—	POP-3
	4: POP3 server UserID	—	POP-4
	5: POP3 server Password	—	POP-5
	6: Use APOP	—	POP-6
	7: Retrieve every (min.)	—	POP-7
	99: Back to prior menu	—	—
97: Reset to factory set	—	—	ETC-1
98: Quit setup	—	—	—
99: Exit setup	—	—	—

7. When configuration is complete, select [Exit Setup] to save your change. To exit without saving your modification, select [Quit].
8. Turn the printer off and on again.

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

## USING SNMP

The printer and network card can be managed via a standard SNMP management station. The network card supports SNMPv1, MIB-II and OKI Data Private MIB. In order for the OkiLAN 7300e 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.

The OKI Data Private MIB file can be found in the MIB folder on the Network Software CD-ROM. Please refer to the readme file in the MIB folder 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.

## CONFIGURABLE ITEMS AND DEFAULT VALUES

Bold is the default setting.

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
TCPIP-1	[OKI Device Setup]- [TCP/IP]- [Use TCP/IP Protocol]	[Network Configuration]- [General Settings]- [Protocol Options]- [TCP/IP]	[Setup TCP/IP]- [TCP/IP protocol]	<b>ENABLE</b> / DISABLE	Set TCP/IP protocol, enabled/disabled
TCPIP-2	[OKI Device Setup]- [TCP/IP]- [IP Address]	[Network Configuration]-[TCP/IP]- [Fixed IP Address Settings]- [IP Address]	[Setup TCP/IP]- [IP address]	0.0.0.0— 255.255.255.255 ( <b>0.0.0.0</b> )	Set IP address
TCPIP-3	[OKI Device Setup]- [TCP/IP]- [Subnet Mask]	[Network Configuration]-[TCP/IP]- [Fixed IP Address Settings]- [Subnet Mask]	[Setup TCP/IP]- [Subnet mask]	0.0.0.0— 255.255.255.255 ( <b>0.0.0.0</b> )	Set subnet mask
TCPIP-4	[OKI Device Setup]- [TCP/IP]- [Default Gateway]	[Network Configuration]-[TCP/IP]- [Fixed IP Address Settings]- [Default Gateway]	[Setup TCP/IP]- [Gateway address]	0.0.0.0— 255.255.255.255 ( <b>0.0.0.0</b> )	Set gateway (default route).
TCPIP-5	[OKI Device Setup]- [TCP/IP]- [Use RARP]	[Network Configuration]-[TCP/IP]- [Method for assigning IP Address]- [RARP]	[Setup TCP/IP]- [RARP protocol]	<b>ENABLE</b> / DISABLE	SET RARP function, enabled/disabled
TCPIP-6	[OKI Device Setup]-[TCP/IP]- [Use DHCP/BOOTP]	[Network Configuration]-[TCP/IP]- [Method for assigning IP Address]- [DHCP/BOOTP]	[Setup TCP/IP]- [DHCP/BOOTP protocol]	<b>ENABLE</b> / DISABLE	Set DHCP function, enabled/disabled
TCPIP-7	[OKI Device Setup]- [TCP/IP]- [DNS Server...]- [Primary Server]	[Network Configuration]-[TCP/IP]- [Fixed IP Address Settings]- [DNS Server Address (Pri.)]	[Setup TCP/IP]- [DNS server(Pri.)]	0.0.0.0— 255.255.255.255 ( <b>0.0.0.0</b> )	Set IP address for primary DNS server
TCPIP-8	[OKI Device Setup]- [TCP/IP]- [DNS Server...]- [Secondary Server]	[Network Configuration]-[TCP/IP]- [Fixed IP Address Settings]- [DNS Server Address (Sec.)]	[Setup TCP/IP]- [DNS server(Sec.)]	0.0.0.0— 255.255.255.255 ( <b>0.0.0.0</b> )	Set IP address for secondary DNS server
TCPIP-9	[OKI Device Setup]- [General]- [Change root password]		[Setup TCP/IP]- [root password]	Any alphanumeric characters up to seven characters. (Default is <b>null</b> )	Set the root password of OkilAN 7300e

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
SNMP-1	[OKI Device Setup]- [SNMP]- [Authentic Community]	[Network Configuration]- [SNMP Traps]- [MIB-II Information]- [Authentic Community]	[Setup SNMP]- [Authentic community]	Any alphanumeric characters up to 15 characters. (Default is <b>[public]</b> )	This community name is used to check whether incoming SNMP requests have the correct community name or not. The community name is displayed as ***** for security reasons
SNMP-2	[OKI Device Setup]- [SNMP]-[TRAP Community]	[Network Configuration]- [SNMP Traps]- [MIB-II Information]- [Trap Community]	[Setup SNMP]- [Trap community]	Any alphanumeric characters up to 15 characters. (Default is <b>[public]</b> )	This community name is assigned to outgoing system traps such as cold start, authentication failure, etc.
SNMP-3	[OKI Device Setup]- [SNMP]- [TRAP Address]	[Network Configuration]- [SNMP Traps]- [MIB-II Information]- [Trap IP Address]	[Setup SNMP]- [Trap address]	0.0.0.0— 255.255.255.255 ( <b>0.0.0.0</b> )	Set a destination IP address of Trap packet. If 0.0.0.0 is set, Trap is disabled
SNMP-4	[OKI Device Setup]- [SNMP]- [SysContact]	[Network Configuration]- [General Settings]- [System Information]- [System Contact]	[Setup SNMP]- [SysContact]	Any alphanumeric characters up to 255 characters. (Default is <b>null</b> )	Set SysContact (printer manager) name
SNMP-5	[OKI Device Setup]- [SNMP]- [SysName]	[Network Configuration]- [General Settings]- [System Information]- [System Name]	[Setup SNMP]- [SysName]	Any alphanumeric characters up to 255 characters. (Default is <b>null</b> )	Set SysName (printer model name)
SNMP-6	[OKI Device Setup]- [SNMP]- [SysLocation]	[Network Configuration]- [General Settings]- [System Information]- [System Location]	[Setup SNMP]- [SysLocation]	Any alphanumeric characters up to 255 characters. (Default is <b>null</b> )	Set Sys-Location (the location where the printer is installed)

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
SNMP-7	[OKI Device Setup]- [SNMP]- [Default TTL]		[Setup SNMP]- [DefaultTTL]	0–255	Set TTL (Time To Live) value
SNMP-8	[OKI Device Setup]- [SNMP]- [Enable Authen Trap]	[Network Configuration]- [SNMP Traps]- [MIB-II Information]- [Enable AuthenTraps]	[Setup SNMP]- [EnableAuthenTrap]	1 (Enable)/ 2 ( <b>Disable</b> )	Set Authentic Trap, enabled/ disabled
NetWare-1	[OKI Device Setup]- [NetWare]- [Use NetWare Protocol]	[Network Configuration]- [General Settings]- [Protocol Options]- [NetWare]	[Setup NetWare]- [NetWare protocol]	<b>ENABLE</b> / <b>DISABLE</b>	Set NetWare protocol, enabled/ disabled
NetWare-2	[OKI Device Setup]- [NetWare]- [Frame Type]	[Network Configuration]- [General Settings]- [Frame Options]- [NetBEUI]	[Setup NetWare]- [Packet type]	ETHER-II/802.3/ 802.2/SNAP/ <b>AUTO</b>	Set primary NetWare packet type
NetWare-3	[OKI Device Setup]- [NetWare]- [Operation Mode]	[Network Configuration]- [NetWare]-[NetWare Selections]- [NetWare Mode]	[Setup NetWare]- [NetWare mode]	RPRINTER/ <b>PSEVER</b>	Set NetWare mode
NetWare-4	[OKI Device Setup]- [NetWare]- [Bindery Setup]- [Selected file server]	[Network Configuration]- [NetWare]-[File Server for PServer Mode]-[File Server Names]	[Setup NetWare]- [Setup PSEVER mode]- [FSEVER name 1–8]	Any alphanumeric characters up to 47 characters. (Default is <b>null</b> )	Set file servers to connect. Up to eight file servers can be set. If you have nine or more file servers, you should set file servers here
NetWare-5	[OKI Device Setup]- [NetWare]- [Print Server Name]	[Network Configuration]- [NetWare]-[PSever Mode]-[NetWare Print Server Name]	[Setup NetWare]- [Setup PSEVER mode]- [Machine name]	Any alphanumeric characters up to 31 characters. (Default is <b>[OL] + last six digits of MAC address</b> )	Set Print Server name
NetWare-6	[OKI Device Setup]- [NetWare]- [Bindery Setup]- [Password]	[Network Configuration]- [NetWare]-[PSever Mode]-[Password]	[Setup NetWare]- [Setup PSEVER mode]- [Password]	Any alphanumeric characters up to 31 characters. (Default is <b>null</b> )	Set password for Print Server

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
NetWare-7	[OKI Device Setup]- [NetWare]- [Bindery Setup]-[Job Polling Time]	[Network Configuration]- [NetWare]-[PServer Mode]-[Job Polling Rate]	[Setup NetWare]- [Setup PSERVER mode]- [Job polling interval]	2–255 (4)	Set print job polling interval in seconds
NetWare-8	[OKI Device Setup]- [NetWare]- [Bindery Setup]	[Network Configuration]- [NetWare]-[PServer Mode]-[Bindery Mode]	[Setup NetWare]- [Setup PSERVER mode]-[Bindery mode]	<b>ENABLE/</b> <b>DISABLE</b>	Set bindery mode, enabled/ disabled. Set <b>DISABLE</b> if you use OkilAN 7300e as PSERVER on NDS
NetWare-9	[OKI Device Setup]- [NetWare]- [NDS Setup]- [NDS Tree]	[Network Configuration]- [NetWare]-[NDS]- [Tree Name]	[Setup NetWare]- [Setup PSERVER mode] – [NDS tree]	Any alphanumeric characters up to 31 characters. (Default is <b>null</b> )	Set NDS Tree name
NetWare-10	[OKI Device Setup]- [NetWare]- [NDS Setup]- [NDS Context]	[Network Configuration]- [NetWare]-[NDS]- [Context]	[Setup NetWare]- [Setup PSERVER mode] – [NDS context]	Any alphanumeric characters up to 77 characters. (Default is <b>null</b> )	Set NDS context for Print Server
NetWare-11	[OKI Device Setup]- [NetWare]- [RPRINTER Setup]- [Selected print server]	[Network Configuration]- [NetWare]-[Remote Printer Mode]- [NetWare Print Server Names]	[Setup NetWare]- [SET RPRINTER mode] – [PSERVE name 1–8]	Any alphanumeric characters up to 47 characters. (Default is <b>null</b> )	Set print servers to connect. Up to eight print servers can be set. If you have nine or more print servers, you should set print servers here
NetWare-12	[OKI Device Setup]- [NetWare]- [RPRINTER Setup]-[Time Out]	[Network Configuration]- [NetWare]-[Remote Printer Mode]- [Job Timeout]	[Setup NetWare]- [SET RPRINTER mode]-[Job timeout]	4–255 (10)	Set duration from the last data's arrival to freeing the port in seconds
EtherTalk-1	[OKI Device Setup]- [EtherTalk]- [Use EtherTalk Protocol]	[Network Configuration]- [General Settings]- [Protocol Options]- [EtherTalk]	[Setup EtherTalk]- [EtherTalk protocol]	<b>ENABLE/</b> <b>DISABLE</b>	Set EtherTalk, enabled or disabled
EtherTalk-2	[OKI Device Setup]- [EtherTalk]- [Zone Name]	[Network Configuration]- [EtherTalk]- [EtherTalk Zone Name]	[Setup EtherTalk]- [Zone name]	Any alphanumeric characters up to 32 characters. ([*])	Set Zone Name to which OkilAN 7300e belongs.

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
NetBEUI-1	[OKI Device Setup]- [NetBEUI]-[Use NetBEUI Protocol]	[Network Configuration]- [General Settings]- [Protocol Options]- [NetBEUI]	[Setup NetBEUI]- [NetBEUI protocol]	<b>ENABLE/DISABLE</b>	Set NetBEUI, enabled or disabled
NetBEUI-2	[OKI Device Setup]- [NetBEUI]- [Computer Name]	[Network Configuration]- [NetBEUI]-[NetBEUI]- [Computer Name]	[Setup NetBEUI]- [Computer name]	Any alphanumeric characters up to 15 characters. (Default is <b>[OL] + last six digits of MAC address</b> )	Set a computer name for OkiLAN 7300e
NetBEUI-3	[OKI Device Setup]- [NetBEUI]- [Workgroup]	[Network Configuration]- [NetBEUI]-[NetBEUI]- [Workgroup Name]	[Setup NetBEUI]- [Workgroup name]	Any alphanumeric characters up to 15 characters. (Default is <b>[PrintServer]</b> )	Set a workgroup name to which OkiLAN 7300e belongs
NetBEUI-4	[OKI Device Setup]- [NetBEUI]- [Comment]	[Network Configuration]- [NetBEUI]-[NetBEUI]- [Comment]	[Setup NetBEUI]- [Comment]	Any alphanumeric characters up to 48 characters. (Default is <b>[EthernetBoard OkiLAN 7300e]</b> )	Set the comments for OkiLAN 7300e
Port-1	[OKI Device Setup]- [NetWare]- [Printer Name]	[Network Configuration]- [NetWare]-[NetWare Selections]- [NetWare Printer Name]	[Setup printer port]-[NetWare port name]	Any alphanumeric characters up to 31 characters. (Default is <b>[OL] + last six digits of MAC address + -prn1</b> )	Set NetWare printer object name
Port-2	[OKI Device Setup]- [EtherTalk]- [Printer Name]	[Network Configuration]- [EtherTalk]- [EtherTalk Printer Name]	[Setup printer port]-[EtherTalk port name]	Any alphanumeric characters up to 32 characters. (Default is the <b>printer name on which OkiLAN 7300e is installed</b> )	Set EtherTalk printer object name

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
Port-3			[Setup printer port]-[BO] string]	Any alphanumeric and following control characters up to 31 characters. (Default is <b>null</b> ). \b Backspace (0x08) \t Tab (0x09) \n Linefeed (0x0a) \v Vertical tab (0x0b) \f Page feed (0x0c) \r Carriage return (0x0d) \xnn Hex code [nn] (0xnn) \ Double quote (0x22) \\ Backslash (0x5c)	Set an appropriate command sequence to be sent to the connected printer before printing job
Port-4			[Setup printer port]-[EO] string]	Any alphanumeric and following control characters up to 31 characters. (Default is <b>null</b> ). \b Backspace (0x08) \t Tab (0x09) \n Linefeed (0x0a) \v Vertical tab (0x0b) \f Page feed (0x0c) \r Carriage return (0x0d) \xnn Hex code [nn] (0xnn) \ Double quote (0x22) \\ Backslash (0x5c)	Set an appropriate command sequence to be sent to the connected printer after printing job

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
Port-5			[Setup printer port]-[BO] string(KANJI)]	Any alphanumeric and following control characters up to 31 characters. (Default is <b>null</b> ) \b Backspace (0x08) \t Tab (0x09) \n Linefeed (0x0a) \v Vertical tab (0x0b) \f Page feed (0x0c) \r Carriage return (0x0d) \xnn Hex code [nn] (0xnn) \ Double quote (0x22) \\ Back slash (0x5c)	Set an appropriate command sequence to be sent to the connected printer before printing job when data is sent to sjis/ euc logical printer/ directory
Port-6			[Setup printer port]-[EO] string(KANJI)]	Any alphanumeric and following control characters up to 31 characters. (Default is <b>null</b> ) \b Backspace (0x08) \t Tab (0x09) \n Linefeed (0x0a) \v Vertical tab (0x0b) \f Page feed (0x0c) \r Carriage return (0x0d) \xnn Hex code [nn] (0xnn) \ Double quote (0x22) \\ Back slash (0x5c)	Set an appropriate command sequence to be sent to the connected printer after printing job when data is sent to sjis/ euc logical printer/ directory

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
Port-7			[Setup printer port]-[Printer type]	PS	Set a printer type when data is sent to sjis/euc logical printer/directory
Port-8			[Setup printer port]-[TAB size (char.)]	0—16 (8)	Set tab size when data is sent to sjis/euc logical printer/directory. The value 0 does not convert any tabs
Port-9			[Setup printer port]-[Page width (char.)]	0—255 (78)	Set page width when data is sent to sjis/euc logical printer/directory. If the width of one line exceeds this value, Carriage Return and Line Feed are inserted automatically. The value 0 means no limitation of the line width
Port-10			[Setup printer port]-[Page length(line)]	0—255 (66)	Set page length when data is sent to sjis/euc logical printer/directory. If the number of lines exceeds this value, Form Feed are inserted automatically. The value 0 means no limitation of the line width

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
Port-11	[OKI Device Setup]-[TCP/IP]-[Use FTP/LPD Banner]		[Setup printer port]-[lpr/ftp banner]	NO/YES	Set banner printing for LPR/FTP enabled/disabled
STATUS-1	[Status]-[Printer Status]	[Printer Status]	[Display status]-[prn1]		Display logical port status
STATUS-2	[Setup]-[System Status]	[Network Configuration]-[Network Summary]	[Display status]-[system]		Display system status
Trap-1	[OKI Device Setup]-[SNMP]-[Printer Trap Setup . . .]-[Printer Trap Community Name]	[Network Configuration]-[SNMP Traps]-[Trap Destination]-[Printer Trap Community Name]	[Setup printer trap]-[Prn-Trap community]	Any alphanumeric characters up to 77 characters. (Default is <b>[public]</b> )	This community name is assigned to outgoing printer status traps such as off-line, paper out, etc.
Trap-2	[OKI Device Setup]-[SNMP]-[Printer Trap Setup . . .]-[TCP#1–5]-[Detail . . .]-[Trap Enable]	[Network Configuration]-[SNMP Traps]-[Trap Assignments]-[Trap Enable]	[Setup printer trap]-[Setup TCP#1–5 trap] – [TCP#1–5 Trap enable]	ENABLE/ <b>DISABLE</b>	Set sending a trap packet enabled or disabled for each destination. Five IP address destinations can be set up and one IPX destination
Trap-3	[OKI Device Setup]-[SNMP]-[Printer Trap Setup . . .]-[TCP#1–5]-[Detail . . .]-[On-line]	[Network Configuration]-[SNMP Traps]-[Trap Assignments]-[On-line]	[Setup printer trap]-[Setup TCP#1–5 trap] – [On-line trap]	ENABLE/ <b>DISABLE</b>	Set sending a trap, enabled or disabled, when the printer turns to ON-LINE
Trap-4	[OKI Device Setup]-[SNMP]-[Printer Trap Setup . . .]-[TCP#1–5]-[Detail . . .]-[Off-line]	[Network Configuration]-[SNMP Traps]-[Trap Assignments]-[Off-line]	[Setup printer trap]-[Setup TCP#1–5 trap] – [Off-line trap]	ENABLE/ <b>DISABLE</b>	Set sending a trap, enabled or disabled, when the printer turns to OFF-LINE

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
Trap-5	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [TCP#1—5]- [Detail . . .]- [Paper Out]	[Network Configuration]- [SNMP Traps]- [Trap Assignments]- [Paper Out]	[Setup printer trap]-[Setup TCP#1—5 trap] – [Paper Out trap]	ENABLE/ DISABLE	Set sending a trap, enabled or disabled, when paper is out
Trap-6	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [TCP#1—5]- [Detail . . .]- [Paper Jam]	[Network Configuration]- [SNMP Traps]- [Trap Assignments]- [Paper jam]	[Setup printer trap]-[Setup TCP#1—5 trap] – [Paper Jam trap]	ENABLE/ DISABLE	Set sending a trap enabled or disabled when a paper jam occurs
Trap-7	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [TCP#1—5]- [Detail . . .]- [Cover Open]	[Network Configuration]- [SNMP Traps]-[Trap Assignments]-[Cover Open]	[Setup printer trap]-[Setup TCP#1—5 trap] – [Cover Open trap]	ENABLE/ DISABLE	Set sending a trap enabled or disabled when the printer cover opens
Trap-8	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [TCP#1—5]- [Detail . . .]- [Printer Error]	[Network Configuration]- [SNMP Traps]-[Trap Assignments]- [Printer Error]	[Setup printer trap]-[Setup TCP#1—5 trap] – [Printer Error trap]	ENABLE/ DISABLE	Set sending a trap enabled or disabled when any errors occur
Trap-9	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [TCP#1—5]	[Network Configuration]- [SNMP Traps]-[Trap Destination]- [Address 1]— [Address 5]	[Setup printer trap]-[Setup TCP#1—5 trap] – [TCP#1—5 Trap address]	0.0.0.0— 255.255.255.255 (0.0.0.0)	Set IP address to which a trap packet will be sent. You can set up to five IP addresses
Trap-10	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [IPX]- [Detail . . .]- [Trap Enable]	[Network Configuration]- [SNMP Traps]- [Trap Assignments]- [Trap Enable]	[Setup printer trap]- [Setup IPX trap] – [IPX Trap enable]	ENABLE/ DISABLE	Set sending a trap packet enabled or disabled for each destination. You can set up to five IP address destinations and one IPX destination.

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
Trap-11	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [IPX]- [Detail . . .]- [On-line]	[Network Configuration]- [SNMP Traps]- [Trap Assignments]- [On-line]	[Setup printer trap]- [Setup IPX trap] – [On-line trap]	ENABLE/ DISABLE	Set sending a trap enabled or disabled when the printer turns to ON-LINE
Trap-12	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [IPX]- [Detail . . .]- [Off-line]	[Network Configuration]- [SNMP Traps]-[Trap Assignments]- [Off-line]	[Setup printer trap]-[ Setup IPX trap] – [Off-line trap]	ENABLE/ DISABLE	Set sending a trap enabled or disabled when the printer turns to OFF-LINE.
Trap-13	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [IPX]- [Detail . . .]- [Paper Out]	[Network Configuration]- [SNMP Traps]-[Trap Assignments]- [Paper Out]	[Setup printer trap]- [Setup IPX trap] – [Paper Out trap]	ENABLE/ DISABLE	Set sending a trap enabled or disabled when paper is out
Trap-14	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [IPX]- [Detail . . .]- [Paper Jam]	[Network Configuration]- [SNMP Traps]- [Trap Assignments]- [Paper Jam]	[Setup printer trap]-[Setup IPX trap] – [Paper Jam trap]	ENABLE/ DISABLE	Set sending a trap enabled or disabled when a paper jam occurs
Trap-15	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [IPX]- [Detail . . .]- [Cover Open]	[Network Configuration]- [SNMP Traps]- [Trap Assignments]- [Cover Open]	[Setup printer trap]- [Setup IPX trap] – [Cover Open trap]	ENABLE/ DISABLE	Set sending a trap enabled or disabled when the printer cover opens
Trap-16	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [IPX]- [Detail . . .]- [Printer Error]	[Network Configuration]- [SNMP Traps]- [Trap Assignments]- [Printer Error]	[Setup printer trap]- [Setup IPX trap] – [Printer Error trap]	ENABLE/ DISABLE	Set sending a trap enabled or disabled when any errors occur

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
Trap-17	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [IPX]	[Network Configuration]- [SNMP Traps]- [Trap Destination]- [IPX]	[Setup printer trap]- [Setup IPX trap] – [IPX Trap address]	Any address (0000000000)	Set node address to which a trap packet will be sent
Trap-18	[OKI Device Setup]- [SNMP]- [Printer Trap Setup . . .]- [IPX]	[Network Configuration]- [SNMP Traps]- [Trap Destination]- [IPX]	[Setup printer trap]- [Setup IPX trap] – [IPX Trap net]	Any address (00000000)	Set network address to which a trap packet will be sent
SMTP-1	[OKI Device Setup]- [SMTP]- [Use SMTP Transmit Protocol]	[Network Configuration]- [Email Settings]- [Email Transmit Settings]- [SMTP Transmit]	[Setup SMTP (E-Mail)]- [SMTP Transmit]	ENABLE/ <b>DISABLE</b>	Set sending E-Mail via SMTP, enabled or disabled
SMTP-2	[OKI Device Setup]- [SMTP]- [Use SMTP Receive Protocol]	[Network Configuration]- [Email Settings]- [Email Receive Settings]- [SMTP Receive]	[Setup SMTP (E-Mail)]- [SMTP Receive]	ENABLE/ <b>DISABLE</b>	Set receiving E-Mail via SMTP, enabled or disabled.
SMTP-3	[OKI Device Setup]- [SMTP]- [SMTP Server Address/ Name]	[Network Configuration]- [Email Settings]- [Email Transmit Settings]- [SMTP Server]	[Setup SMTP (E-Mail)]- [SMTP server name]	0.0.0.0— 255.255.255.255 or host name up to 64 characters. (Default is <b>null</b> )	Set IP address or host name of SMTP server
SMTP-4	[OKI Device Setup]-[SMTP]- [Advanced . . .]- [SMTP Port Number]	[Network Configuration]- [Email Settings]- [Email Transmit Settings]- [SMTP Port Number]	[Setup SMTP (E-Mail)]- [SMTP port number]	1–65535 (25)	Set port number of SMTP
SMTP-5	[OKI Device Setup]- [SMTP]-[E-Mail Address]	[Network Configuration]- [Email Settings]- [Email Transmit Settings]- [Printer Email Address]	[Setup SMTP (E-Mail)]- [E-Mail address]	Any alphanumeric characters up to 78 characters. (Default is <b>null</b> )	Set the E-Mail address that is used for [From] field in the mail header
SMTP-6	[OKI Device Setup]- [SMTP]-[Reply-To Address]	[Network Configuration]- [Email Settings]- [Email Transmit Settings]- [Reply-To-Address]	[Setup SMTP (E-Mail)]-[Reply-To address]	Any alphanumeric characters up to 78 characters. (Default is <b>null</b> )	Set the E-Mail address that is used for [Reply-To] field in the mail header

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
SMTP-7	[OKI Device Setup]- [SMTP]-[1-5]- [To Address 1-5]	[Network Configuration]- [Email Settings]- [Email Recipients]- [Email Address 1]- [Email Address 5]	[Setup SMTP (E-Mail)]-[Event to address 1-5] - [To Address 1-5]	Any alphanumeric characters up to 78 characters. (Default is <b>null</b> )	Set E-Mail addresses to that E-Mail should be sent. Up to five E-Mail addresses can be set
SMTP-8	[OKI Device Setup]- [SMTP]-[1-5]- [Check Interval]	[Network Configuration]- [Email Settings]- [Email Alert Assignments]- [Re-send Interval]	[Setup SMTP (E-Mail)]-[Event to address 1-5] - [Re-send Interval]	<b>DISABLE</b> / 30min/60min/ 24hour	Set interval that the OkilAN 7300e checks specified event(s). An E-Mail is sent when specified event(s) occur when <b>DISABLE</b> is selected
SMTP-9	[OKI Device Setup]- [SMTP]-[1-5]- [Selected condition]	[Network Configuration]- [Email Settings]- [Email Alert Assignments]- [Off Line]	[Setup SMTP (E-Mail)]-[Event to address 1-5] - [Off Line]	<b>ENABLE</b> / <b>DISABLE</b>	An E-Mail is sent when the printer is Off-line if this is enabled
SMTP-10	[OKI Device Setup]- [SMTP]-[1-5]- [Selected condition]	[Network Configuration]- [Email Settings]- [Email Alert Assignments]- [Consumable Message]	[Setup SMTP (E-Mail)]-[Event to address 1-5] - [Consumable Message]	<b>ENABLE</b> / <b>DISABLE</b>	An E-Mail is sent when maintenance is required if this is enabled
SMTP-11	[OKI Device Setup]- [SMTP]-[1-5]- [Selected condition]	[Network Configuration]- [Email Settings]- [Email Alert Assignments]- [Toner Low Toner Out]	[Setup SMTP (E-Mail)]-[Event to address 1-5] - [Toner Low/Out]	<b>ENABLE</b> / <b>DISABLE</b>	An E-Mail is sent when toner(s) low/out occurs if this is enabled
SMTP-12	[OKI Device Setup]- [SMTP]-[1-5]- [Selected condition]	[Network Configuration]- [Email Settings]- [Email Alert Assignments]- [Paper Low Paper Out]	[Setup SMTP (E-Mail)]-[Event to address 1-5] - [Paper Low/Out]	<b>ENABLE</b> / <b>DISABLE</b>	An E-Mail is sent when paper low/out occurs if this is enabled
SMTP-13	[OKI Device Setup]- [SMTP]-[1-5]- [Selected condition]	[Network Configuration]- [Email Settings]- [Email Alert Assignments]- [Paper Jam]	[Setup SMTP (E-Mail)]-[Event to address 1-5] - [Paper Jam]	<b>ENABLE</b> / <b>DISABLE</b>	An E-Mail is sent when a paper jam occurs if this is enabled

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
SMTP-14	[OKI Device Setup]- [SMTP]-[1-5]- [Selected condition]	[Network Configuration]- [Email Settings]- [Email Alert Assignments]-[Cover Open]	[Setup SMTP (E-Mail)]-[Event to address 1-5] - [Cover Open]	ENABLE/ <b>DISABLE</b>	An E-Mail is sent when the cover is opened if this is enabled
SMTP-15	[OKI Device Setup]- [SMTP]-[1-5]- [Selected condition]	[Network Configuration]- [Email Settings]- [Email Alert Assignments]- [Stacker Error]	[Setup SMTP (E-Mail)]-[Event to address 1-5] - [Stacker Error]	ENABLE/ <b>DISABLE</b>	An E-Mail is sent when any stacker error occurs if this is enabled
SMTP-16	[OKI Device Setup]- [SMTP]-[1-5]- [Selected condition]	[Network Configuration]- [Email Settings]- [Email Alert Assignments]-[Mass Storage Error]	[Setup SMTP (E-Mail)]-[Event to address 1-5] - [Mass Storage Error]	ENABLE/ <b>DISABLE</b>	An E-Mail is sent when any mass storage error occurs if this is enabled
SMTP-17	[OKI Device Setup]- [SMTP]-[1-5]- [Selected condition]	[Network Configuration]- [Email Settings]- [Email Alert Assignments]- [Recoverable Error]	[Setup SMTP(E-Mail)]-[Event to address 1-5] - [Recoverable Error]	ENABLE/ <b>DISABLE</b>	An E-Mail is sent when any recoverable error occurs if this is enabled
SMTP-18	[OKI Device Setup]- [SMTP]-[1-5]- [Selected condition]	[Network Configuration]- [Email Settings]- [Email Alert Assignments]- [Service Call Required]	[Setup SMTP (E-Mail)]-[Event to address 1-5] - [Service Call Req.]	ENABLE/ <b>DISABLE</b>	An E-Mail is sent when any service call request occurs if this is enabled
SMTP-19	[OKI Device Setup]- [SMTP]-[1-5]- [Selected condition]	[Network Configuration]- [Email Settings]- [Email Alert Assignments]- [Finisher Error]	[Setup SMTP (E-Mail)]-[Event to address 1-5] - [Finisher]	ENABLE/ <b>DISABLE</b>	An E-Mail is sent when any finisher error occurs if this is enabled
SMTP-20	[OKI Device Setup]-[SMTP]- [Advanced . . .]- [Signature]	[Network Configuration]- [Email Settings]- [Email Signature]- [Signature line 1]- [Signature line 4]	[Setup SMTP (E-Mail)]- [Signature line 1-4]	Any alphanumeric characters up to 63 characters. (Default is <b>null</b> )	Set up to four signature lines. Signature is added to the bottom of an E-Mail
POP-1	[OKI Device Setup]-[POP]- [Use POP3 Protocol]	[Network Configuration]- [Email Settings]- [Email Receive Settings]- [POP Protocol]	[Setup POP (E-Mail)]-[POP3 protocol]	ENABLE/ <b>DISABLE</b>	Set retrieving E-Mail via POP3, enabled or disabled

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
POP-2	[OKI Device Setup]-[POP]- [POP3 Server Address/ Name]	[Network Configuration]- [Email Settings]- [Email Receive Settings]- [POP Server Name]	[Setup POP (E-Mail)]-[POP3 server]	Any alphanumeric characters up to 63 characters. (Default is <b>null</b> )	Set IP address or host name of POP3 server
POP-3	[OKI Device Setup]-[POP]- [POP3 Port Number]	[Network Configuration]- [Email Settings]- [Email Receive Settings]- [POP Port Number]	[Setup POP (E-Mail)]-[POP3 port number]	1–65535 ( <b>110</b> )	Set port number of POP
POP-4	[OKI Device Setup]-[POP]- [POP3 Server UserID]	[Network Configuration]- [Email Settings]- [Email Receive Settings]- [POP Account]	[Setup POP (E-Mail)]-[POP3 server UserID]	Any alphanumeric characters up to 16 characters. (Default is <b>null</b> )	Set user ID for POP3 server
POP-5	[OKI Device Setup]-[POP]- [POP3 Server Password]	[Network Configuration]- [Email Settings]- [Email Receive Settings]- [POP Password]	[Setup POP (E-Mail)]-[POP3 server Password]	Any alphanumeric characters up to 16 characters. (Default is <b>null</b> )	Set password for POP3 server
POP-6	[OKI Device Setup]-[POP]- [Use APOP]	[Network Configuration]- [Email Settings]- [Email Receive Settings]- [APOP Support]	[Setup POP (E-Mail)]- [User APOP]	YES/NO	Set YES if you want to use APOP
POP-7	[OKI Device Setup]-[POP]- [POP3 Interval]	[Network Configuration]- [Email Settings]- [Email Receive Settings]- [POP Receive Interval]	[Setup POP (E-Mail)]- [Retrieve every(min.)]	<b>OFF</b> /1min/ 5min/10min/ 30min/60min	Set interval to retrieve E- Mail(s) from POP3 server. Set OFF if you do not want to use POP3 function.
ETC-1	[Setup]-[Reset]	[Network Configuration]- [General Settings]- [Restore Factory Defaults]	Reset to factory set		Reset OkILAN 7300e settings to factory default
ETC-2		[Network Configuration]- [General Settings]- [System Information]- [Printer Serial Number]			Read only item. Printer serial number is displayed

Ref. No.	Admin Manager	Web browser	TELNET/ Diagnostic test print	Available options	Notes
ETC-3		[Network Configuration]- [General Settings]- [System Information]- [Printer Asset Number]		Any alphanumeric characters up to 8 characters. (Default is <b>null</b> )	Set a printer asset number

Configurable items vary between printers.

# MANAGEMENT UTILITY

## PrintSuperVision

PrintSuperVision is a web-based application for managing printing devices connected to a network. It consists of two parts:

A web application based on Microsoft web server (Internet Information Server, IIS or Personal WEB Server, PWS), that provides the user interface.

A monitoring program (PrintSuperVisor) that runs all the time, collecting data and saving it in a database for statistical reports and sending E-Mail alerts based on the saved configuration.

PrintSuperVision's main functions are:

- › Maintaining the list of printing devices and organising them in logical groups.
- › Initially discovering and configuring printers connected to the network.
- › Locating printers visually on maps.
- › Monitoring devices over time and saving data for statistical reports.
- › Sending email alerts when events occur that affects the functionality of printers.
- › Statistical reports about usage of printers.
- › Tracking maintenance data related to printers.
- › Integrating with Oki Data's on-line web support.

## SYSTEM REQUIREMENT

### Windows

The main PrintSuperVision application can be installed in any of the following Windows systems.

OPERATING SYSTEM	SERVICE PACK	OPTION PACK	IIS/PWS
Windows NT 4.0 Workstation	6.0	4.0	PWS (Personal Web Server) available in NT 4.0 Option Pack
Windows NT 4.0 Server	5.0	4.0	IIS (Internet Information Server) 1.0
Windows XP Home/Professional	—	—	IIS installed as an option. Available in the Windows XP CD
Windows 2000 Professional	1.0	—	Internet Service Manager included in the OS
Windows 2000 Server/Advanced Server	1.0	—	Internet Service Manager included in the OS
Windows 98	—	—	PWD (Included in Windows 98 by default) PWS available in NT 4.0 Option Pack in Microsoft Web site
Windows 98 SE	—	—	PWD (Included in Windows 98 by default. PWS available in NT 4.0 Option Pack in Microsoft Web site

While the PrintSuperVision application may work in Windows 95 with PWS installed, PrintSuperVision may not install or work properly in some versions of Windows 95. However, as a client, Windows 95 is fully supported.

Microsoft does not officially support Windows Me-PWS in Windows Me. PrintSuperVision does not support this OS. Also, Microsoft no longer supports Peer Web Service. PrintSuperVision will not work with Peer Web Service.

## Supported Browsers

The browsers supported are:

Internet Explorer (IE) 4.01 and above.

Netscape Navigator 4.0 and above.

Opera 5.12 and above.

The PrintSuperVision application can be accessed from any Windows, Macintosh, Unix, and Linux desktop that support any of the above-mentioned browsers.

While all the above browsers are supported, PrintSuperVision works best when used with Internet Explorer. When using the Netscape browser, do not select the option [Images off]. The hyperlinks may not work properly. Some versions of Netscape browser do not display the frames properly, and the [Back] button may not work correctly.

## Supported Printers

PrintSuperVision provides general management information for OKI and non-OKI printers connected to the network. For OKI printers, additional details, reports and added features are available. The list below indicates the supported printers as of this release.

C9200	OKIPAGE 8c Plus
C9400	OKIPAGE 20 Plus Series
C9300	OKIPAGE 20 Series
C9500	OKIPAGE 24 Series
C7200	OKIPAGE 16n
C7400	OKIFAX 5700
C7100	OKIFAX 5750
C7300	OKIFAX 5780
C7500	OKIFAX 5900
OKIPAGE 14i, 14ex	OKIFAX 5950
OKIPAGE 12i/n	OKIFAX 5980
OKIPAGE 10i	ML4410
OKIPAGE 8c	

While the printer properties are displayed in PrintSuperVision, only a few of the printer settings can be set. For setting any other printer settings, a hyperlink to the printer's web page is provided in PrintSuperVision.

### Supported network interface cards

The list of network interface cards supported is listed below:

<b>NETWORK INTERFACE CARDS</b>	<b>SUPPORTED PRINTER</b>
OkilAN 7300e	C9200, C9400, C9300, C9500, C7200, C7400, C7100, C7300, C7500
OkilAN 7200e	C9200, C9400, C7200, C7400
OkilAN 3100e	OKIPAGE 14i, 14ex
OkilAN 320e	OKIPAGE 14i
OkilAN 7100e+	OKIPAGE 8c, OKIPAGE 8c Plus, OKIPAGE 20 Plus Series, OKIPAGE 20 Series, OKIPAGE 24 Series, OKIPAGE 16n, OKIFAX 5700, OKIFAX 5750, OKIFAX 5780, OKIFAX 5900, OKIFAX 5950, OKIFAX 5980, ML4410

While the network interface card settings are displayed in PrintSuperVision, only a few of the network interface card settings can be set. For setting any other network interface card settings, a hyperlink to the printer's web page is provided in PrintSuperVision.

## INSTALLATION

### To install the Print SuperVision utility

*WindowsXP/2000/NT4.0 requires administrator privileges.*

1. Insert the Network Software CD-ROM into the CD-ROM drive. The Setup Utility starts automatically. If it does not start, double-click *setup.exe* on the CD-ROM.
2. Select [Software Utilities].
3. Select [Install PrintSuperVision].
4. Follow the on-screen instructions. In the [Edit Data] screen, you can specify a port number for PrintSuperVision (default 80).
5. When installation ends, the [Setup complete] screen is displayed. Click [Finish].
6. Now you should select [Start]-[Programs]-[PrintSuperVision]-[PrintSuperVision] or double-click the [PrintSuperVision] icon on the desktop for the PrintSuperVision server.
7. For PrintSuperVision client, access [*http://[the server IP address or host name]/PrintSuperVision*] from the Web browser. If you change the port number you should add *[:[port number]]* such as [*http://192.168.20.127/PrintSuperVision:8080*].
8. PrintSuperVision has an on-line help facility.

## UNINSTALLATION

To uninstall PrintSuperVision, either select [Start]-[Programs]-[PrintSuperVision]-[Uninstall PrintSuperVision], or from [Control Panel], select [Add/Remove Programs], select [PrintSuperVision] from the index window and click [Add/Remove]. When the uninstallation is completed, close [Add/Remove Programs].

In some cases, an empty [*Okidat/PrintSuperVision/*] directory may be left behind. Delete the directory manually.

## **PRINTING UTILITY**

### **OKI LPR**

The OKI LPR Utility is a utility that allows printing data to printers connected to the network via TCP/IP. This utility is for use with Windows XP, Windows 2000, Windows Me, Windows 98, Windows 95 and Window NT4.0.

The utility is for those OKI printers which support TCP/IP and redirects printing data to the lpr port of the specified IP address.

### **System Requirement**

Windows XP/2000/Me/98/95/NT4.0 with TCP/IP support and the following OKI printers that support TCP/IP.

C9200	OKIPAGE 8c Plus
C9400	OKIPAGE 20 Plus Series
C9300	OKIPAGE 20 Series
C9500	OKIPAGE 24 Series
C7200	OKIPAGE 16n
C7400	OKIFAX 5700
C7100	OKIFAX 5750
C7300	OKIFAX 5780
C7500	OKIFAX 5900
OKIPAGE 14i, 14ex	OKIFAX 5950
OKIPAGE 12i/n	OKIFAX 5980
OKIPAGE 10i	ML4410
OKIPAGE 8c	

## TO INSTALL THE OKI LPR UTILITY

The OKI LPR utility requires that the TCP/IP protocol should be installed into your Windows system. To install the TCP/IP protocol into your Windows system consult your Windows manual.

*Windows XP/2000/NT4.0 requires administrator privileges.*

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 manual.
2. Insert the Network Software CD-ROM into the CD-ROM drive. The Setup Utility starts automatically. If it does not start, double-click *setup.exe* on the CD-ROM.
3. Select [Software Utilities].
4. Select [Install OkilPR].
5. Follow the on-screen instructions.
6. Click [Next] when the [Welcome] screen is displayed.
7. Verify [Destination Folder] and [Spool Folder] and click [Next].
8. 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].
9. Verify the program folder name and click [Next]. The installation starts.
10. When the installation ends, the [Setup complete] screen is displayed. Check [Yes, I want to launch OKI LPR Utility now] and click [Finish]. Check [Yes, I want to view the ReadMe File] if you want to read [Readme]. The OKILPR utility starts.
11. Select [Add Printer] on the [Remote Print] menu.

12. Select [Printer] to accept the printer that has been added in the step 1.
13. 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 OKI LPR Utility.
2. Select [Start]-[Program]-[Okidata]-[OKI LPR Utility]-[Uninstall OKI LPR Utility] ([Start]-[All Programs]-[Okidata]-[OKI LPR Utility]-[Uninstall OKI LPR Utility] on WindowsXP).
3. Click [Yes] when the [Confirm File Deletion] dialogue is displayed. Deletion of the OKI 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 OKI LPR utility or the folder to spool, you cannot delete the folder. Delete any unwanted files before running [Uninstall OKI 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 set-up 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 the following protocols that can be used in conjunction with the Windows operating system:

- › TCP/IP
- › IPX (Novell NetWare)
- › NetBEUI

# INSTALLATION OF TCP/IP PROTOCOL

There are a number of options available when printing using TCP/IP for Windows. The following table lists the options:

WINDOWS VERSION	METHOD
Win 95/98/Me	OKI LPR Utility
NT 4.0	OKI LPR Utility Microsoft LPR <sup>1</sup>
Windows 2000/ Windows XP	OKI LPR Utility Microsoft LPR <sup>1</sup> Port 9100 <sup>1</sup> IPP <sup>1</sup>

<sup>1</sup>These functions are built into Windows and are displayed as options when using the Add Printer Wizard.

Although there are some differences in configuration options between the various Windows platforms, the procedure for printing using TCP/IP is the same.

1. Ensure that the TCP/IP protocol has been installed in Windows. This can be confirmed by checking the network settings from within the Control Panel. If TCP/IP has not been installed refer to the section below Installation of TCP/IP protocol.
2. If not already configured, a suitable IP address, Subnet Mask and Gateway address should be configured. Please refer to the on-line help if necessary. It is vital that the IP address entered is unique and valid. Entering an incorrect IP address may cause severe network problems. Please check the address with the network administrator.
3. If your network environment uses domain names, DNS should be enabled and configured on your system. However, this step is not essential to enable network printing.
4. Restart the operating system.

## **WINDOWS 95/98/ME**

1. Click the [Start] button, select [Settings] and then click on [Control Panel].
2. In the [Control Panel] double-click on the [Network] icon.
3. In the [Network] dialogue box click the [Configuration Panel].
4. If the [Client for Microsoft Networks] is not listed, click the [Add] button.
5. In the [Select Network Component Type] dialogue box, select [Protocol] then click the [Add] button.
6. In the [Select Network Protocol] dialogue box, select [Microsoft] from the list of manufacturers, then select [TCP/IP] from the list of network protocols, then click [OK].
7. The Windows installation CD-ROM may be required. Follow the remaining dialogue box prompts.

## **WINDOWS NT 4.0**

1. Click the [Start] button, select [Settings] and then click on [Control Panel].
2. Double-click the [Network] icon.
3. In the Network dialogue box, click the [Protocols] tab.
4. If the [TCP/IP Protocol] is not listed, click the [Add] button.
5. In the [Select Network Protocol] dialogue box, select [TCP/IP Protocol] and click [OK].
6. The Windows NT installation CD-ROM may be required. Follow the remaining dialogue box prompts.

## **WINDOWS 2000**

1. Click the [Start] button, select [Settings] and then click on [Network and Dial-up Connections].
2. Double-click the [Local Area Connection] icon. In the [Local Area Connection Status] dialogue box, click the [Properties] button. If the TCP/IP protocol is not listed.
3. In the [Local Area Connection Properties] dialogue box, click the [Install] button.
4. In the [Select Network Component Type] dialogue box, select [Protocol] and click the [Add] button.
5. In the [Select Network Protocol] dialogue box, select [TCP/IP Protocol] and click the [OK] button.
6. Click the [Close] button in the [Local Area Connection Properties] dialogue box.
7. Click the [Close] button in the [Local Area Connection Status] dialogue box.

## **WINDOWS XP**

1. Click the [Start] button and select [Control Panel].
2. Select [Network and Internet Connection] and [Network Connection].
3. Double-click [Local Area Connection] and click [Properties] in the [Location Area Connection Status] dialogue box.
4. If the [Internet Protocol (TCP/IP)] is not listed, click [Install..] button.
5. In the [Select Network Component Type] dialogue box, select [Protocol] then click the [Add] button.

6. In the [Select Network Protocol] dialogue box, select [Internet Protocol (TCP/IP)] then click [OK].
7. The Windows XP installation CD-ROM may be required. Follow the remaining dialogue box prompts.

Once the protocol has been installed and configured in Windows, the next step is to configure the TCP/IP parameters in the network printer.

## **NETWORK PRINTER IP ADDRESS CONFIGURATION**

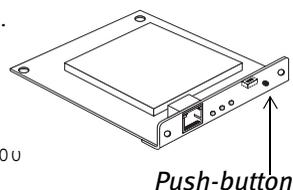
Use the Standard Set-up Utility to configure the IP Address, Subnet Mask and Gateway.

1. Connect the printer to the network and turn on.
2. Place the Network Software Utilities disk in the CD-ROM drive. The set-up utility starts automatically. If the set-up utility does not start, double-click on *setup.exe* in the Windows folder of the CD-ROM.
3. Select [Network Card Set-up].
4. Select [Network Card Quick Set-up].
5. Select the appropriate language.
6. Click [Next] at Welcome screen.
7. If you agree to the User License Agreement, click [Next].
8. 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 for two seconds and then releasing it.

## Printed diagnostics sample

```
Ethernet Board Okaying 7300e Version 1.  
*** Diagnostic report ***  
ROM Check Ok Sat: F05B FFFF 0000 0000  
RAM Check Ok Sat: 0000 0000 0000 0000  
NIC Check: Ok add: 00:80:92:07:DB:85  
EEPROM Check Ok Stat:9BC2 9BC2 0000 0000  
DIPSW1:OFF(ON:Test use only)  
DIPSW2:OFF(ON:Initialize configuration)  
DIPSW3:OFF(ON:Configuration print)  
DIPSW4:OFF(ON:Diagnostic print)
```



### *Do you use the 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 board.

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 assigning an IP address, you need to enter:

- › An IP address
  - › Submit mask
  - › Gateway address.
9. Click [Next].

### *Do you use the NetWare protocol?*

Consult your network manager to ensure that the NetWare file server is properly installed and working on the network. Make sure that NetWare Client32 or IntranetWare Client is installed on your computer.

10. On selecting [Yes] you will be asked if [You set-up the queue from the Wizard]?

*Do you use the EtherTalk protocol?*

EtherTalk is the required protocol for printing data from the Macintosh environment.

*Do you use the NetBEUI protocol?*

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

11. Confirm your configuration. If everything is correct, select [Execute] to apply the configuration. Set-up has now been completed. Select [Finish].

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.

## **WINDOWS 95/98/ME**

When printing using TCP/IP the *OkilPR* utility is the only option to use. The following procedure should be used.

When installing the driver, ensure it is installed as a local printer and not a network printer. Ensure the appropriate printer driver has been installed in Windows.

Install the *OkilPR* utility as described on page 80 of this manual and add the printer installed earlier.

## WINDOWS NT 4.0

With Windows NT 4.0, you have two options for printing using TCP/IP. They are:

- > OkiLPR
- > Microsoft LPR

In order to use Microsoft LPR, it must first be installed into your operating system.

*NT 4.0 requires administrator privileges.*

### **OkiLPR**

Please follow the procedure described in the Windows 95/98/Me section on page 89.

### **Microsoft LPR**

To install this port, the following needs to be carried out.

1. Select [Start], [Settings], [Control Panel] and then select [Printers].
2. Select [Add Printer] Wizard.
3. Select [My Computer] and then [Next].
4. Select [Add Port].
5. Select [LPR Port] and then [OK].
6. In [Name or address of server providing lpd] type the host name or IP address of the host for the printer you are adding.

7. In [Name of printer or print queue on that server] type the logical printer name "lp" and then click [OK].
8. Follow the instructions on the screen to finish installing the LPR-compatible printer.

If the LPR port is not available, install the Microsoft TCP/IP Printing Service.

Insert the printer driver for Windows NT4.0.

1. Select [Start], [Settings], [Control Panel] and then double-click the [[Network] icon.
2. In the Network dialogue box, click the [Services] tab.
3. If the [Microsoft TCP/IP Printing] is not listed, click the [Add] button.
4. In the [Select Network Service] dialogue box, select [Microsoft TCP/IP Printing] and click [OK].
5. The Windows NT installation CD-ROM may be required. Follow the remaining dialogue box prompts.

## **WINDOWS 2000**

*Windows 2000 requires administrator privileges.*

With Windows 2000, there are four options for printing using TCP/IP.

- > OkiLPR
- > Microsoft LPR
- > Port 9100
- > IPP

In order to use Microsoft LPR, it must first be installed on your system.

## **OKILPR**

Please follow the procedure described in the Windows 95/98/Me section on page 89.

## **Microsoft LPR**

To install this port, the following needs to be carried out:

1. Select [Start], [Settings], [Control Panel and Printers].
2. Open the [Printers] folder.
3. Double-click [Add Printer] and then select [Next].
4. Select [Local Printer], clear the [Automatically detect my printer] check box, and then select [Next].
5. Select [Create a new port] and then [LPR Port].
6. Select [Next] and then provide the following information:

In [Name or address of server providing LPD] enter the host name or Internet Protocol (IP) address of the host for the printer you are adding.

In [Name of printer or print queue on that server] type "lp".

Follow the instructions on the screen to finish installing the TCP/IP printer.

## **Port 9100**

1. Select [Start], [Settings], [Control Panel].
2. Open the [Printers] folder.
3. Double-click [Add Printer] and then select [Next].
4. Select [Local Printer], clear the [Automatically detect my printer] check box and then click [Next].
5. Select [Create a New Port] and select [ Standard TCP/IP Port].

6. Select [Next].
7. The [Welcome to the Add Standard TCP/IP Printer Port Wizard] will appear.
8. Select [Next] and provide the following information. Enter [Printer name] or IP address, for example: *192.168.1.31*. If the above IP address is entered, the Port Name will default to *IP\_192.168.1.31*.
9. Select [Next]. Additional port information will be required.
10. Under [Device Type], select [Custom] then [Settings].
11. Ensure [Protocol] is set to [Raw].
12. Ensure [Port Number] is 9100 and [SNMP Status Enabled] is deselected.
13. Select [OK].
14. Select [Follow the instructions on the screen to finish installing the printer.]

## **IPP**

1. Select [Start], [Settings], [Control Panel and Printers].
2. Open the [Printers Folder].
3. Double-click [Add Printer] and then select [Next].
4. Select [Network Printer].
5. Select [Next].
6. Type printer URL in text box labelled [Connect to a printer in the Internet or your Intranet], e.g. *http://192.168.1.31/ipp/ip*.

7. Select [Next].
8. Install printer driver.

## **WINDOWS XP**

Windows XP requires administrator privileges.

With Windows XP, there are four options for printing using TCP/IP.

- > OkiLPR
- > Microsoft LPR
- > Port 9100
- > IPP

In order to use Microsoft LPR, it must first be installed on your system.

### **OKILPR**

Please follow the procedure described in the Windows 95/98/Me section on page .

### **Microsoft LPR**

To install this port, the following needs to be carried out:

1. Select [Start], [Settings], [Control Panel]. and [Printers and Other Hardware].
2. Select [Printers and Faxes].
3. Click [Add Printer] and then select [Next].
4. Select [Local printer attached to this computer], clear the [Automatically detect and install my Plug and Play printer] check box, and then select [Next].
5. Select [Create a New Port] and [Type Standard TCP/IP Port].
6. Select [Next].

7. The [Welcome to the Add Standard TCP/IP Printer Port Wizard] will appear.
8. Select [Next] and provide the following information. Enter [Printer name or IP address], for example: *192.168.1.31*. If the above IP address is entered, the Port Name will default to *IP\_192.168.1.31*.
9. Select [Next]. [Additional Port Information Required] displayed.
10. Under [Device Type], select [Custom] then [Settings].
11. Ensure [Protocol] is set to [LPR].
12. Ensure [Queue Name] is "lp" and [SNMP Status Enabled] is deselected.
13. Select [OK].
14. Follow on screen instructions to finish installing the printer.

### **Port 9100**

1. Select [Start], [Settings], [Control Panel]. and [Printers and Other Hardware].
2. Select [Printers and Faxes].
3. Click [Add Printer] and then select [Next].
4. Select [Local printer attached to this computer], clear the [Automatically detect and install my Plug and Play printer] check box, and then select [Next].
5. Select [Create a New Port] and select [Type Standard TCP/IP Port].
6. Select [Next].
7. The [Welcome to the Add Standard TCP/IP Printer Port Wizard] will appear.

8. Select [Next] and provide the following information. Enter [Printer name or IP address], for example: *192.168.1.31*. If the above IP address is entered, the Port Name will default to *IP\_192.168.1.31*.
9. Select [Next]. [Additional Port Information Required] is displayed.
10. Under [Device Type], select [Custom] then [Settings].
11. Ensure [Protocol] is set to [Raw].
12. Ensure [Port Number] is 9100 and [SNMP Status Enabled] is deselected.
13. Select [OK].
14. Follow the instructions on the screen to finish installing the printer.

## **IPP**

1. Select [Start], [Settings], [Control Panel], and [Printers and Other Hardware].
2. Select [Printers and Faxes].
3. Click [Add Printer] and then select [Next].
4. Select [A network printer, or a printer attached to another computer].
5. Select [Next].
6. Select [Connect to a printer on the Internet or on a home or office network] and type printer URL in text box, e.g. *http://192.168.1.31/ipp/ip*.
7. Select [Next].
8. Install printer driver

## NOVELL NETWORK IPX

IPX is used with Novell NetWare. The OkiLAN 7300e supports Novell 3, 4, 5 and 6, and allows print jobs to be directed to the appropriate Novell print queue. Please refer to the relevant section of this manual for additional information.

## NETBEUI PROTOCOL

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

### Network Printer Settings

There are three configurable items under NetBEUI within the printer. These can be configured using the standard set-up utility described in Chapter 1.

COMPUTER NAME:	NAME ASSIGNED TO THE PRINTER
Workgroup:	PrintServer <sup>1</sup>
Comment:	User definable description

<sup>1</sup>Although the workgroup name can be changed, it is recommended that it remains as PrintServer.

Although there are some differences in configuration options between the various Windows platforms, the procedure for printing using NetBEUI is the same.

Please ensure the NetBEUI protocol has been installed in Windows. This can be confirmed by checking the network settings. If NetBEUI has not been installed please refer to the section below.

The relevant Windows installation CD-ROM may be required and you should follow the on-screen dialogue box prompts.

## **WINDOWS 95/98/ME**

1. Select [Start], [Settings], and [Control Panel].
2. In the Control Panel double-click on the [Network icon].
3. In the Network dialogue box select [Configuration Panel].
4. If [Client for Microsoft Networks] is not listed, click the [Add] button.
5. In the [Select Network Component Type] dialogue box, select [Protocol] then the [Add] button.
6. In the [Select Network Protocol] dialogue box, select [Microsoft] from the list of manufacturers, then select [NetBEUI] from the list of [Network Protocols] and then click [OK].
7. The Windows installation CD-ROM may be required. Follow the remaining dialogue box prompts.

## **WINDOWS NT 4.0**

1. Click the [Start] button, select [Settings] and then [Control Panel].
2. Double-click the [Network] icon.
3. In the [Network] dialogue box, click the [Protocols] tab.
4. If the [NetBEUI Protocol] is not listed, click the [Add] button.
5. In the [Select Network Protocol] dialogue box, select [NetBEUI Protocol] and click [OK].

## WINDOWS 2000

1. Click the [Start] button, select [Settings] and then click on [Network and Dial-up Connections].
2. Double-click the [Local Area Connection] icon. In the [Local Area Connection Status] dialogue box, click the [Properties] button.
3. In the [Local Area Connection Properties] dialogue box, if the [NetBEUI Protocol] is not listed, click the [Install] button.
4. In the [Select Network Component Type] dialogue box, select [Protocol] and click the [Add...] button.
5. In the [Select Network Protocol] dialogue box, select [NetBEUI Protocol] and click the [OK] button.
6. Click the [Close] button in the [Local Area Connection Properties] dialogue box.
7. Click the [Close] button in the [Local Area Connection Status] dialogue box.

## WINDOWS XP

Although you can install the NetBEUI protocol into Windows XP, it is not supported. You should be able to use NetBEUI on LAN connections although you will not be able to use this on a Remote Access Service Connections.

1. In the [Start] menu, select [Settings] then [Control Panel].
2. Double-click on [Network Connections].
3. Right-click the adapter you wish to add NetBEUI to and then click [Properties].
4. On the [General] tab, select [Install].
5. Select [Protocol] and then [Add].

6. Select [Have Disk] and insert your Windows XP CD-ROM, open the *Valueadd\msft\net\netbeui* folder, click the *Netnbf.inf* file and then click [Open]. Now the printer has been configured and NetBEUI has been installed, you can configure Windows to print over the network.

## PRINTER DRIVER CONFIGURATION

In the following example, the printer has been configured as follows:

<b>COMPUTER NAME:</b>	<b>OL07DB85</b>
Workgroup:	PrintServer
Comment:	EthernetBoard OKILAN 7300e

1. Set up the printer driver as the default local printer.
  2. In the [Start] menu, select [Settings] then [Printers].
  3. Select the relevant printer driver, then [Properties].
  4. Click on the [Details] tab in the printer driver.
  5. Select [Add Port]. Select [Network] and click [Browse].
  6. Double-click [Entire Network], [PrintServer] and [OL07DB85].
  7. Select [Prn1] and click OK.
  8. Check that [Network] is selected and click [OK].
  9. Select [Apply] and [OK] to close [Properties].
- › Printing can be carried out using the application software.
  - › The Master Browser function manages machine information from the same Workgroup, and replies to summary requests from other workgroups.
  - › The Master Browser function operates only if the Workgroup name is PrintServer.

- › The Master Browser function can only manage this network card. If the PrintServer name is put into another Workgroup, the network card will not be able to find it on the network.
- › A maximum of eight Ethernets can be managed by the Master Browser function.
- › Printing cannot be carried out and an error message appears when jobs from other users (including other protocols) are being printed.



# NOVELL NETWARE

## OVERVIEW

The OkILAN 7300e supports the Novell NetWare environment.

It is necessary to have NetWare Administrator or Supervisor rights to change the configuration. This guide is for NetWare administrators. It should be read in conjunction with the relevant Novell NetWare manual. The latest Novell service packs and Novell client versions should be installed.

## SUPPORTED VERSIONS AND MODES

NetWare 3.11 +	Bindery
NetWare 4.1+	Bindery and NDS
NetWare 5+	Bindery, NDS and NDPS
NetWare 6	Bindery, NDS, NDPS and iPrint

In NDS, the printer can be configured to work in either print server mode or remote printer mode.

## REMOTE PRINTER MODE

Remote Printer Mode requires a connection to be made to a workstation running Pserver. Print jobs are received from the file server via the NetWare print server. The network interface card emulates the workstation on which the NetWare Rprinter operates. Remote Printer Mode adds additional traffic to the network and is slower than Print Server Mode but does not require any additional licenses.

## PRINT SERVER MODE (RECOMMENDED)

In Print Server Mode, the file server is logged in and the printer queue is repeatedly polled to determine whether a print job exists. The NetWare print server or workstation where Pserver runs is emulated. This enables high speed printing without applying a load to the network. Print Server Mode requires a single user NetWare license.

## Printing the Network Interface Card Configuration Sheet

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

The information that you require is the printer's Ethernet address. It is displayed at the top of the first page under the title *Diagnostic report*, and is displayed **in bold** below.

```
*** Diagnostic report ***  
ROM Check:Okstat:F05B FFFF 0000 0000  
RAM Check:Okstat:0000 0000 0000 0000  
NIC Check: Ok Addr:*00:80:92:07:DB:85 100BASE-TX
```

The first six digits of the Ethernet address are the same for all OkiLan7300e network cards. The last six digits of the Ethernet address are unique to each card

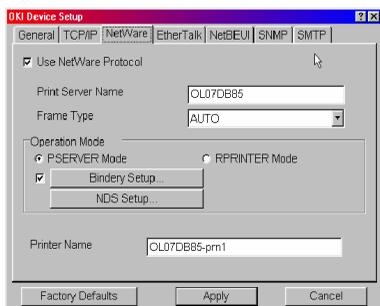
This is all the information that is required to setup the OkiLan7300e for NetWare.

## SETUP UTILITIES

Use *NWAdmin32* or the *Pconsole* utility to create and setup NetWare printer objects. Please refer to Novell documentation for instructions on how to achieve this.

Use the OKI Network Card Setup Utility (*AdminManager*) or other printer manager software, (Web browser, *JetAdmin*, etc.) to configure

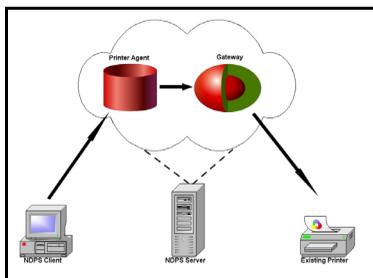
the network interface card. For instructions please refer to the Configuration Utility section and online help. Below is the NetWare configuration page from AdminManager.



## OKI NDPS GATEWAY

OKI provide a gateway for NDPS. Gateways allow NDPS clients to send jobs to printers that are not NDPS-aware (that is, printers that are not equipped with embedded NDPS Printer Agents). You select and configure a printer gateway when you create a new Printer Agent.

Gateways translate NDPS queries or commands to printer-specific language that the physical printer can use. This is possible because gateways are configured to know the specific type (make and model) of printer being used. The following diagram illustrates a typical gateway configuration.

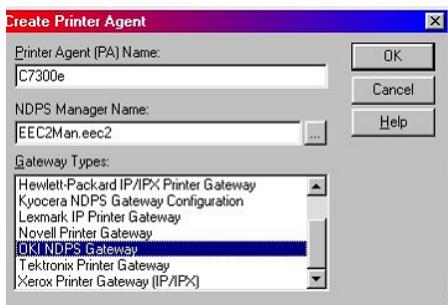


The OKI NDPS Gateway can be installed from the OkiLAN 7300e CD under Software Utilities. Please follow on-screen instructions. You will require a drive mapping to the NetWare server that you are installing to.

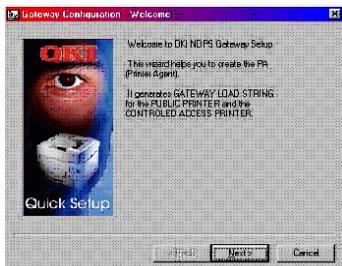
- › During installation, all files are copied to the SYS:/SYSTEM and SYS:/PUBLIC/WIN32 directories on the NetWare server



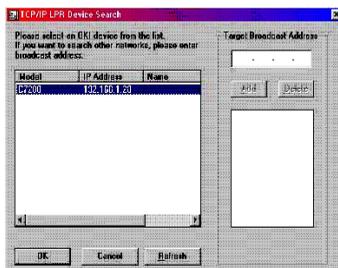
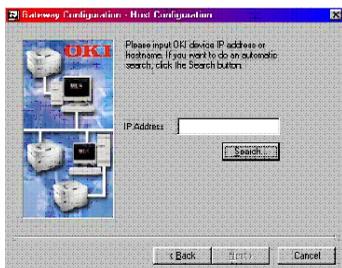
1. To setup the OkiLAN 7300e to work with the OKI NDPS Gateway, you should create a NDPS printer object as normal with the *nwadmin32* utility. When you get to the [Create Printer Agent] screen, under [Gateway Types] there should now be an option for OKI NDPS Gateway.



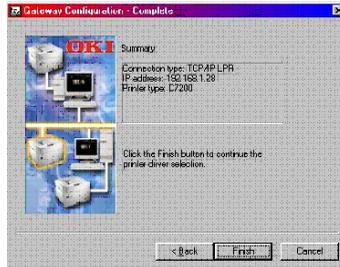
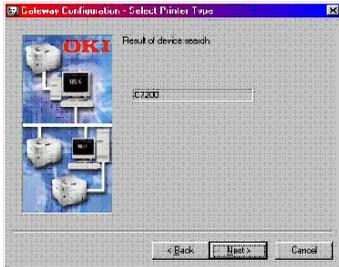
2. Select this and click [OK] to continue. You will then be presented with the Gateway Configuration Welcome screen, click [Next] again and select Printer Interface Type, either TCP/IP LPR or NetWare IPX and select [Next] to continue. (TCP/IP configuration illustrated.)



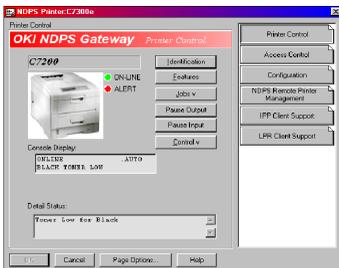
You will then be requested to enter either the TCP/IP or IPX address, depending on the type of interface selected in the previous screen. If you do not know the address, you are given the option to search on the network.



Once you have correctly input your network address you will be prompted with a [Results] and then a [Summary] screen.



3. Press the [Finish] button on the [Summary] screen so the NDPS Printer object has now been created and is configured to use the OKI NDPS Gateway. Below is the Printer Control screen for the completed printer.



## **iPRINT**

iPrint is included in NetWare 6 and is Novell's next generation of printing software. It is Novell's implementation of IPP (Internet Printing Protocol). iPrint allows users to install, manage and print to printers through Web browsers regardless of where the printer is physically located or whether they know the printer's network address. iPrint runs on top of Novell Distributed Print Services (NDPS) and provides the following functionality:

- › Global access to printers.
- › Customizable view of any print environment.
- › Flexible print deployment configurations.
- › Secure printing.

The OkiLAN 7300e does not require any custom configuration for iPrint. To enable and configure the iPrint service on your network, please refer to your Novell NetWare 6 documentation.



# UNIX

## OVERVIEW

The OkiLAN 7300e 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.
- › Login as [root] to change the configuration of the OkiLAN 7300e. By default, there is no root password.
- › 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.

1. Logging as root to the workstation
  - › If you do not have superuser rights, the network manager should conduct the configuration.
2. If the OkiLAN 7300e does not have an IP addresses already assigned, use the **arp** command to set a temporary IP address.

*Example: for IP address 192.68.20.127 and network card address 00:80:92:01:00:D2*

```
# arp -s 192.168.20.127 00:80:92:01:00:D2 temp
```

The Ethernet address (MAC address) 00:80:92:01:00:D2 in the above example can be determined from the network card self-diagnostic test.

```
EthernetBoard OkiLAN 7300e Version 1.1.x
```

```
*** Diagnostic report ***
```

```
ROM Check: Ok Stat: 8166 FFFF 0000 0000
```

```
RAM Check: Ok Stat: 0000 0000 0000 0000
```

```
NIC Check: Ok addr: 00: 80: 92: 01: 00: D2
```

```
10BASE- (TPI)
```

```
EPROM Check : Ok Stat: 884B 884B 0000 0000
```

```
DIPSW1 : OFF (ON: Test use only)
```

```
DIPSW2 : OFF (ON: Initialize configuration)
```

```
DIPSW3 : OFF (ON: Reserved)
```

```
DIPSW4 : OFF (ON: Diagnostic print)
```

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 been already set manually or DHCP/RARP server may run), or with the network. Reset the network interface card settings to default and try to set 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 '^]'.
EthernetBoard OkiLAN 7300e
login: root
`root' user needs password to login.
password: <CR>
User `root' logged in.
No. Message Value (level .1)
1 : Setup TCP/ IP
2 : Setup SNMP
3 : Setup NetWare
4 : Setup EtherTalk
5 : Setup NetBEUI
6 : Setup printer port
7 : Display Status
8 : Setup printer trap
9 : Setup SMTP Email
97 : Reset to factory set
98 : Quit setup
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. Message Value

```
1 : TCP/ IP protocol : ENABLE
2 : IP address : 192.168.20.127
3 : Subnet Mask : 255.255.255.0
4 : Gateway address : 192.168.20.1
5 : RARP protocol : DISABLE
6 : DHCP/ BOOTP protocol: DISABLE
7 : root password : " "
99 : Back to prior menu
```

Please select (1- 99)?

6. Logout from the network interface card. Turn the printer off and on again to validate the following settings.

## OPERATING SYSTEM CONFIGURATION

This section explains how to configure a printer for major UNIX operating systems.

### **Sun OS 4.x.x (BSD) configuration**

The following explanation uses Sun OS 4.1.3 and a C7400 printer as examples. The absolute path of commands and the configuration method may differ between OS versions, so refer to the workstation manuals for more information.

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 the network manager and confirm that the IP address of the printer has been set.

1. Login as [root] to the workstation.

If you do not have Superuser rights, the network manager should conduct the configuration.

2. Register the IP address of the network card and the host name in the */etc/hosts* file.

*Example: for IP address 192.168.20.127 and host name C7400*

```
192.168.20.127 C7400
```

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

*Example: for host name C7400*

```
# ping C7400
```

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

4. Register the printer in the */etc/printcap* file.

*Example: for host name C7400, to create a queue called C7400\_lp*

```
C7400_lp: \  
    :lp=:rm=C7400:rp=lp:\  
    :sd=/usr/spool/C7400_lp:\  
    :lf=/usr/spool/C7400_lp/C7400_lp_errs:
```

C7400_lp	The name of the printer queue
lp:	The name of the device used to connect to the printer. Does not need to be specified for a remote machine.
rm:	The name of the host of the remote printer. This should be the same as the name added to the <i>/etc/hosts</i> file.
rp:	The name of the printer on the remote printer. It should be lp.
sd:	The spool directory. Give the absolute path.
lf:	The error log file. Give the absolute path.

5. Create the spool directory and error log file.

*Example: for spool Directory C7400\_lp and Error Log file C7400\_lp\_errs*

```
# mkdir /usr/spool/C7400_lp  
# touch /usr/spool/C7400_lp/7400_lp_errs  
# chown -R daemon /usr/spool/C7400_lp  
# chgrp -R # daemon /usr/spool/C7400_lp
```

6. Check that **lpd** (printer daemon) is activated.

```
# ps aux | grep lpd
```

7. If **lpd** is not running, you can start it by logging in as superuser and executing

```
# /usr/lib/lpd &
```

## Sun Solaris 2.x configuration

*Admintool* is normally used to register remote printers on Open Windows. However, it cannot be used here, as the data recipient and queue have the same name. The procedure below must be used for registering a remote printer.

If Solaris 2.x is connected to the remote printer for a long period according to the system specifications, errors and forced disconnection may occur. Therefore, if paper tearing, off-line and other errors result in waiting time, printing may have to be aborted.

if an incorrect IP address is entered, the network may go down or other damage may occur. Configure after consulting the network manager.

The following explanation uses Sun Solaris 2.8 (known as Solaris 8) and a C7400 printer as examples. The absolute path and method of configuring commands may differ in other versions of the OS. Refer to the workstation manual for more details.

1. Confirm that the IP address of the printer has been set.
2. Login as [root] to the workstation. If you do not have superuser rights, the network manager should conduct the configuration.
3. Register the IP address of the network card and the host name in */etc/hosts* file.

*Example: for IP Address 192.168.20.127 and host name C7400*

```
192.168.20.127 C7400
```

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

*Example: for host name C7400*

```
# ping C7400
```

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 DHCP/RARP server may run), or with the network.

Reset the network interface card settings to default and try to set temporary IP address. If you still have the problem after resetting the network interface card, consult the network manager.

5. Register the network card as a remote printer server.

*Example: for host name C7400*

- a. Stop the print scheduler.

```
# /usr/sbin/lpshut
```

- b. Create the printer queue.

```
# /usr/sbin/lpadmin -p C7400_lp -v /dev/null \
m netstandard -o dest=C7400:lp
-o protocol=bsd
```

- c. Set the queue to accept PostScript print jobs.

```
# /usr/sbin/lpadmin -p C7400_lp -I postscript
```

- d. Start the print scheduler.

```
# /usr/sbin/lpsched
```

- e. Activate the print queue.

```
# /usr/sbin/accept C7400_lp
```

- f. Enable the print queue

```
# /bin/enable C7400_lp
```

To customise output, for example to add additional commands at the start of each print job, you can edit a copy of the **netstandard** model file then add it using the **lpadmin** command

*Example: for printer C7400\_lp, with model file called C7400\_model*

```
# /usr/sbin/lpshut
```

```
# /usr/sbin/lpadmin -p C7400_lp -m C7400_model
```

```
# /usr/sbin/lpsched
```

## HP-UX 10.x configuration

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 the network manager.

The following example uses HP-UX10.20 and a C7400 printer as examples. The absolute path and method of configuring commands may differ in other versions of the OS. Refer to the workstation manual for more details.

1. Confirm that the IP address of the printer has been set. See network interface card IP address configuration for more information.
2. Login as [root] to the workstation. If you do not have superuser rights, the network manager should conduct the configuration.
3. Register the IP Address of the network card and the host name in the */etc/hosts* file.

*Example: for IP Address 192.168.20.127 and host name C7400*

```
192.168.20.127 C7400
```

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

*Example: for host name C7400*

```
# ping C7400
```

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 DHCP/RARP server may run), 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.

5. If remote spooling is not already enabled on the HP-UX machine, carry out the following configuration.

- a. Stop the printer spooler.

```
# /usr/sbin/lpshut
```

- b. Add the following line to the */etc/inetd.conf* file and register the remote spooler.

```
printer stream tcp nowait root /usr/sbin/  
rlpdameon -I
```

- c. Restart *inetd*

```
# /etc/inetd -c
```

## 6. Register the remote printer

*Example: setting up a queue called C7400\_lp to print to host C7400*

- d. Register the remote printer.

```
# /usr/sbin/lpadmin -pC7400_lp -v /dev/null  
-mrmmodel \-ormC7400 -orplp -ocmrcmodel  
-osmrsmodel -ob3
```

- e. Activate the print queue.

```
# /usr/sbin/accept C7200_lp
```

- f. Enable the print queue.

```
# /bin/enable C7200_lp
```

- g. Enable the printer spooler.

```
# /usr/sbin/lpsched
```

To customise output, for example, to add additional commands at the start of each print job, you can edit a copy of the */usr/spool/lp/model/rmodel* model file then add it using the *lpadmin* command.

*Example: for printer C7400\_lp, with model file called C7400\_model*

```
# /usr/sbin/lpshut  
# /usr/sbin/lpadmin -pC7400_lp -mC7400_model  
# /usr/sbin/lpsched
```

### AIX 4.1.5 configuration

The following explanation uses AIX4.1.5 and an C7400 printer as examples. The absolute path of commands and the method of configuring may differ with the OS version. Refer to the workstation's manual. If an incorrect IP address is entered, the network may go down or other damage may occur. Configure after consulting the network manager.

1. Log in as [root]. If you do not have superuser rights, the network manager should conduct the configuration.
2. Register the IP address and the host name in the */etc/hosts* file.

*Example: for IP Address 192.168.29.127 and host name C7400*

```
192.168.29.127 C7400
```

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

*Example: for host name C7400*

```
# ping C7400
```

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 DHCP/RARP server may run), 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. Register the host that was previously registered as the print server.

*Example: for the C7400 registered as the print server*

- a. Add the print server.

```
# ruser -a -p C7400
```

- b. Activate the remote printer daemon.

```
# startsrc -s lpd
```

```
# mkitab 'lpd:2:once:startsrc -s lpd'
```

5. Add the print queue using the *smit* command.

- c. Activate the *smit* command and convert to the item [Add print queue].
  - # `smit mkrque`
- d. Select [remote] (the printer connected to the remote host) from [Type of connection].
- e. Select [Standard procedure] from Type of remote print.
- f. Carry out the following settings in [Add a standard remote print queue]. If the configuration differs from below, configure according to environment.

*Example: fr direct output port lp with print queue C7400\_lp and print server C7400*

Queue to be added	"C400_lp"
Host name of the remote server	"C7400"
Queue name of the remote server	"lp"
Type of print spooler of the remote server	"BSD"
Description of printer name of the remote server	"Optional comment"

### **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 *lpr* and *lp* commands. The following explanation in this section uses the printing of print file *test.prn* with printer name *C7400\_lp* as an example.

## Logical printers

The OkilAN 7300e includes three logical printers.

- › *lp* 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 -PC7400_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 C7400\_lp*

```
# lprm -PC7400_lp 123
```

Verify the printer status using the *lpq* command.

- › The result of *lpq* may not be displayed correctly depending on UNIX operating system specification.
- › While the short format of *lpq* is a UNIX compatible format, the long format is unique to the OkilAN 7300e.

*Example of the short format:* # `lpq -PC7400_lp`

*Example of the long format:* # `lpq -l -PC7400_lp`

## System V-based UNIX

Print using the *lp* command.

```
# lp -d C7400_lp test.prn
```

Delete a print job using cancel command.

*Example: To delete a print job (Job ID 456) in the C7400\_lp*

```
# cancel C7400_lp -456
```

Verify the printer status using the *lpstat* command.

```
# lpstat -pC7400_lp
```

- › The result of *lpstat* 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 C7400\_lp as an example.

## Logical directories

OkiLAN 7300e includes three logical directories.

*lp* 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. Login 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 are required. See the appropriate section for details.

*Example: Logging in with host name C7400 (or IP address 192.168.20.127).*

```
# ftp C7400 (or ftp 192.168.20.127)
Connected to C7400
220 EthernetBoard OkiLAN 7300e Ver 1.1.0 FTP
Server
Name (C7400:root) : 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 lp 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 contents are 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 /lp
```

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: lp)*

ftp> **quote stat /lp**

211-FTP directory status:

Ready

211 End of status

ftp>



# APPLE MACINTOSH

## OVERVIEW

The OkiLAN 7300e supports the Apple Macintosh AppleTalk environment. This guide is for administrators and it should be read in conjunction with the relevant Macintosh manual. The latest Macintosh service packs should be installed.

## SUPPORTED VERSIONS

All Macintosh operating systems from OS 8.1 are supported.

### Printing the Network Interface Card Configuration Sheet

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 three seconds and then release.

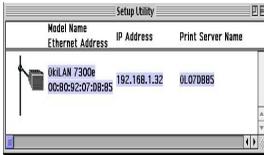
The information that you require is the printer's Ethernet address. It is displayed at the top of the first page under the title *Diagnostic report*, and is displayed **in bold** below.

```
*** Diagnostic report ***  
ROM Check:Okstat:F05B FFFF 0000 0000  
RAM Check:Okstat:0000 0000 0000 0000  
NIC Check: Ok Addr:*00:80:92:07:DB:85 100BASE-TX
```

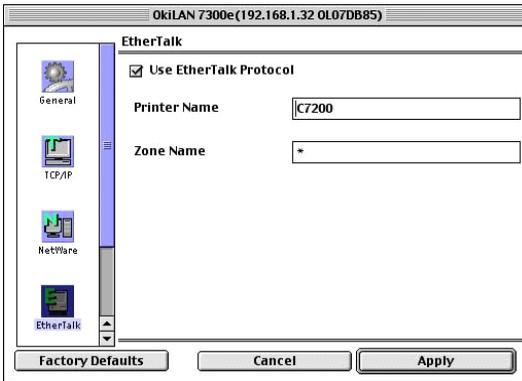
The first six digits of the Ethernet address are the same for all OkiLAN 7300e network cards. The last six digits of the Ethernet address are unique to each card.

This is all the information that is required to setup the OkiLAN 7300e for Macintosh.

# SETUP UTILITIES



Use the OKI Network Card Setup Utility (Macintosh) to assign an IP address and configure the network interface card. For instructions please refer to the Configuration Utility section and on-line help. Below is the Macintosh Ethernalk configuration page from AdminManager.



# CONFIGURATION

There are three items that need to be configured for EtherTalk.

## 1. Use EtherTalk Protocol

Please check the Use EtherTalk Protocol checkbox.

## 2. Printer Name

Give the Printer Name as you would like it to appear in the Chooser

## 3. Zone Name

If your network uses Zones, please enter the Zone Name here, otherwise leave as is.

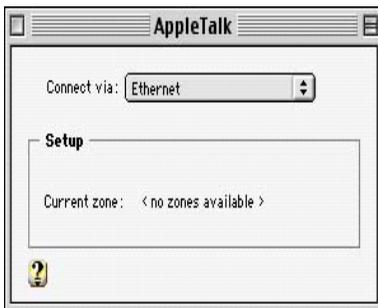
# APPLETALK CONFIGURATION

To enable network printing from the Macintosh, you must configure AppleTalk to connect via Ethernet.



1. From the Apple menu select [Control Panels – AppleTalk].
2. From the AppleTalk configuration page select [Connect via: Ethernet].
3. In Setup Current Zone, if used, make sure that your zone information is correct.

4. Close the AppleTalk configuration page and save changes to current configuration when prompted.



5. Configuration is now complete and you are ready to install your printer driver. Please enter your driver CD, run the installer and follow the on-screen instructions.

## MACINTOSH OS X

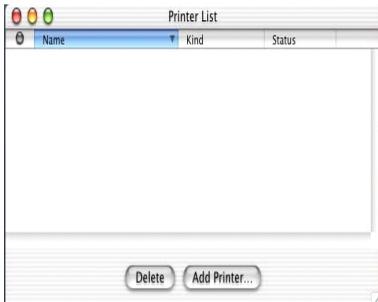
The OkiLAN 7300e NIC is also supported in the Macintosh OS X environment.

Run the installer on the driver CD to install the printer's PPD file.

In OS X you need to make sure that AppleTalk is turned on in order to connect to an AppleTalk printer.

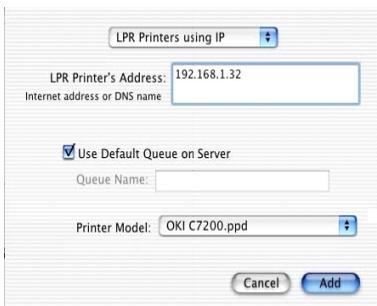
1. To switch AppleTalk on, open [System Preferences], click [Network] then click [AppleTalk].
2. Check the [Make AppleTalk Active] check box and if your network uses AppleTalk Zones, enter the appropriate zone information and click [Apply Now].

In Mac OS X you use the Print Centre to select network printers, not the Chooser.



Before you can use a printer it must appear in the printer list in Print Centre.

3. Click on [Add Printer] and make sure that the connection method is LPR and assign its IP address.
4. Either assign a queue name or check to use the default queue on server checkbox.
5. Under Printer Model select from the list the PPD file that you installed earlier for the printer and click [Add].



These are all the steps that are necessary to setup the OkiLAN 7300e for network printing in Macintosh OS X.



# 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.*

Ensure the printer emulation is set to **PS** or **Automatic**.

**NG** is printed in the *Self-diagnostic test*.

```
*** Diagnostic report ***  
ROM Check :Okstat:EFCC FFFF 0000 0000  
RAM Check :Okstat:0000 0000 0000 0000  
NIC Check :Okaddr:00:80:92:00:13:01  
  
100BASE-TX  
EEPROM Check:Okstat:8DD0 8DD0 0000 0000
```

*ROM Check and RAM Check register NG.*

Confirm that the network interface card (NIC) is installed correctly and turn the printer off and on again.

*NIC check registers NG.*

Confirm that the NIC is installed correctly and turn the printer off and on again.

Ensure the network cable is correctly connected and connect to a different network segment, rerun the test and see if this cures the fault.

*EEPROM Check registers NG.*

Confirm that the NIC is installed correctly and turn the printer off and on again.

Initialize the NIC.

## TCP/IP

*Printer cannot find the network interface card.*

Turn the printer off and on again.

Confirm the network interface is enabled on the printer.

Check there is a response to the **PING** command.

Check the network cable is correctly connected.

Change the cable and try again.

Run the Self-diagnostic test.

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 and 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: **lp**, **eu**c and **sjs**. Use **lp** by default as **eu**c and **sjs** are specific to PostScript printers.

*Incorrect User name on the banner page.*

If printing with *lpr*, the User name printed is **unknown** and the Filename printed is the Spool file name.

If printing with FTP, the User name printed is the User name entered during FTP login and the File name printed is the Transmitted file name. If the Print Directory name is indicated in the **put** command, the File name is not printed. The Printer name printed is the Logical Directory name.

## **NETWARE**

*Printer cannot find the network interface card.*

Turn the printer off and on again.

Confirm the network interface is enabled on the printer.

Check the network cable is correctly connected.

Change the cable and try again.

If the standard configuration utility is used, check the NetWare network number in the environment settings.

If the NetWare protocol is disabled, set it to **Enable**.

Reset the network interface card to factory default settings.

*The network interface card is identified by the setup utility but not by the NetWare server.*

Start up the NetWare server and check the NIC configuration.

Check the NSAP packet on the NetWare server is not set to **Disable**.

### **Remote Server mode**

Check the correct print server is operating on the file server.

Check the Print Server name operating on the File Server and the Print Server name set in the NIC are the same.

Check the Printer name displayed in the Print Server monitor of the File Server and the NetWare Port name set in the NIC are the same. If there are multiple network interface cards, configure the NetWare Port names to be different.

## **Print Server mode**

Check the File Server name set in the NIC and on the File Server are the same.

Check the Printer name set in the File Server and the NetWare Port name set in the NIC are the same. If there are multiple NICs, configure the NetWare Port names to be different.

Check the NetWare login password is correct.

Check the Machine name is the same as the Print Server name set in the File Server.

*Printer does not print.*

Check the network cable is correctly connected.

Change the cable and try again.

Turn the printer off and on again.

Check the NIC is connected to the File Server.

Check the printer driver has been mapped to the correct netware queue.

*PostScript error occurs if a Banner Page is printed.*

A PostScript Banner page cannot be printed in NetWare 3.12 Remote Printer mode. If a PostScript printer is used and a Banner Page is printed, **PostScript error** is displayed. Turn the banner output **Off** in the client's printer settings.

## **ETHERTALK**

*Not identified by the Chooser and the Setup Utility.*

Turn the printer off and on again.

Check the network cable is correctly connected.

Change the cable and try again.

If the network resides in a Zone, check the correct Zone name is selected in the Chooser.

Check the Zone name in the utility related to the NIC is the same as the Zone name set in NIC.

Check AppleTalk, which is displayed at the right bottom of the Chooser, is set to **Enable**. (In some OS versions Network is used instead of AppleTalk.)

Check **Ethernet** is selected in AppleTalk. (In some OS versions Network is used instead of AppleTalk.)

Check the print driver is selected in the Chooser.

Check the EtherTalk protocol is set to **Enable**.

Print the NIC settings and confirm that the EtherTalk Port name is not blank.

## **NETBEUI**

*The network interface card is not identified.*

Turn the printer off and on again.

Check the network cable is correctly connected.

Change the cable and try again.

Check **Microsoft network client** and **NetBEUI** have been added to the network section of the control panel.

Check the NetBEUI protocol is set to **Enable**.

Check the factory setting of the workgroup name is **PrintServer** and the computer name is ML+ the last six digits of the MAC address.

Check the computer name of the NIC is different from the computer name on the network.

*Error writing to Prn1.*

Check the printer is online.

If there is an error message indicating the paper has run out, add more paper and cancel the error.

Check whether another user is printing. Print after the other user has finished.

## **GLOSSARY**

NIC	Network Interface Card
NDS	Novell Directory Service
NDPS	Novell Distributed Print Services
iPrint	Internet Print
IPP	Internet Printing Protocol