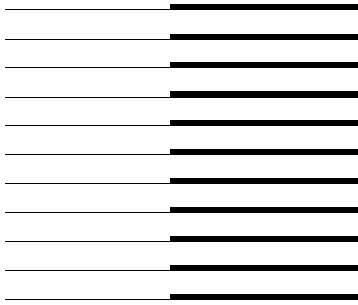




Océ Machine Monitor

User Manual





Océ-Technologies B.V.

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Chapter 1

Introduction

The printing, scanning, and copying process. The concept of Machine Monitor.



Introduction

Océ Machine Monitor is a software module that can be used in combination with different Océ printers/scanners:

- Océ 9700/9800
- Océ 9400 series

Depending on the Océ printer/scanner that is used, Océ Machine Monitor can be used for different purposes, as explained in the following sections.

Concept for Océ 9700/9800

An Océ large format print system will primarily be used in central reproduction environments. Remote control, speed and integrated finishing capabilities make the Océ printer the ideal solution in these environments. Files that are sent to the printer will be printed, sorted and folded on request. This results in greatly improved productivity over traditional printing and copying.

Combined with a special software application, the Océ print system allows you to productively scan paper drawings and convert them to digital files.

Prints, hard copy drawings and print files are not the only form of information entering repro departments. Equally important is information regarding:

- how copies should be produced,
- how sets should be printed ready for distribution,
- how prints are to be distributed.

This type of additional information is traditionally communicated via telephone, fax, or internal electronic mail. Rather than improving just part of the reproduction process, the Océ scanning and printing applications include all these information aspects.

Océ scanning and printing applications

The Océ scanning and printing applications support the digitalisation of engineering drawings, and/or the high-volume reproduction of digital engineering drawings. These applications are supplied by four software modules:

- Job Director
- Repro Station
- Scan Station
- Machine Monitor (described in this manual)

Job Director Job Director is a Microsoft Windows application which runs on PCs, ideally in a network. It allows users to create, edit and send reproduction requests - jobtickets or matrix tickets - from any PC to Repro Station.

For more information, see the Océ Job Director User Manual.

Repro Station Repro Station is a Microsoft Windows application which controls printing on the Océ printer. All print jobs go through Repro Station where they are queued, logged and managed. Repro Station supports the following functions:

- accept plain print files, print files with Océ header information and digital reproduction requests (job tickets),
- provide queuing and other system management functions to the operator of the printer,
- control the Océ printer to produce complete sets of documents: sorted, folded and deposited in one of the output devices of the printer, ready for distribution.

Apart from job requests initiated by Job Director, Repro Station also accepts print jobs and check plots from other sources, like printer drivers or document management systems. Job tickets must comply with the job ticket format specification as described in the 'Océ Job Ticket Interface Programmer's Manual'.

For more information, see the Océ Repro Station User Manual.

Scan Station Scan Station is a Microsoft Windows application which allows you to control the scanning (also called upload) process. You can specify settings like resolution and file format. You also specify where the resulting files must be stored, which can be a network disk. When a file has been received by Scan Station you may view it on the PC's screen to check the quality of the scan. If you are using a software application to generate Scan Tickets, the required settings on Scan Station will be made automatically for each drawing.

For more information, see the Océ Scan Station User Manual.

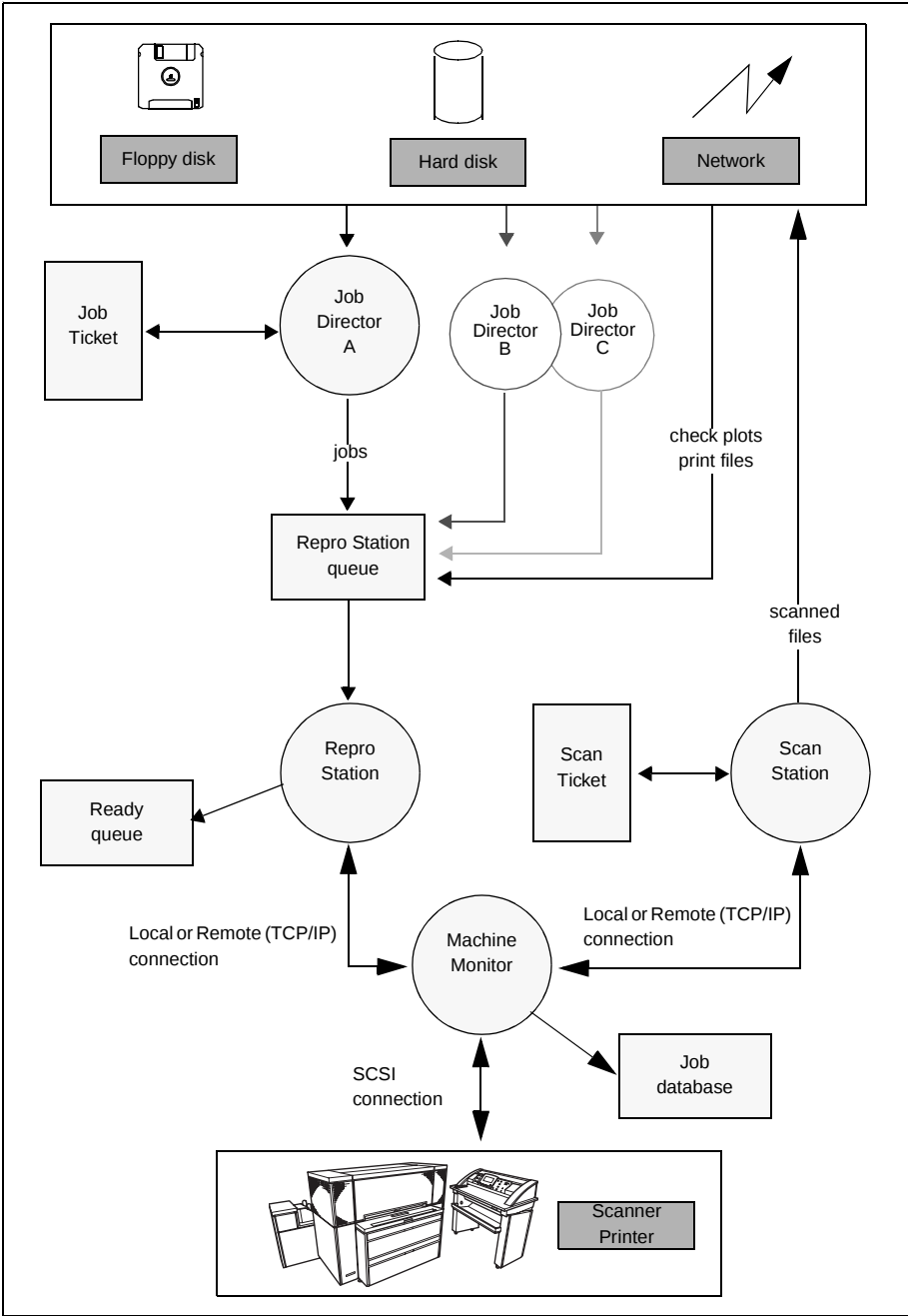
Machine Monitor Machine Monitor is in fact part of the Repro Station and/or Scan Station concept. Repro Station and Scan station can send print jobs to the printer via Machine Monitor. If both Repro Station and Scan Station want to send a job, Machine Monitor decides which job comes first, and which job has to wait.

If the printer supports back channel communication, Machine Monitor can also collect information from the printer, and send this information to Repro Station or Scan Station. In this way the following information can be collected:

- Status information
- Printer settings, e.g. engine configuration, printer stamps
- Rolls and media information
- Job information (statistics)

The Océ 9700/9800 scanning and printing concept is shown in figure 1 on page 10.

This manual describes Machine Monitor in more detail.



[1] Océ 9700/9800 scanning and printing concept

Job information

Machine Monitor collects job information about each job that is copied, printed, or scanned by the printer. This information is stored in an ODBC (Open Data Base Connection) compatible database. Many items per job are recorded. Among these are:

- date
- time
- user and account number
- used media
 - standard formats: number of copies
 - non-standard formats: number of length meters

You can use any database application capable of reading this ODBC file, to create your own statistics application.

Concept for Océ 9400 series

Océ Machine Monitor is one of the software modules you need to productively scan hard copy drawings on an Océ 9400, and convert them to digital files. In that case you will also need another software module: Océ Scan Station 9400 series.

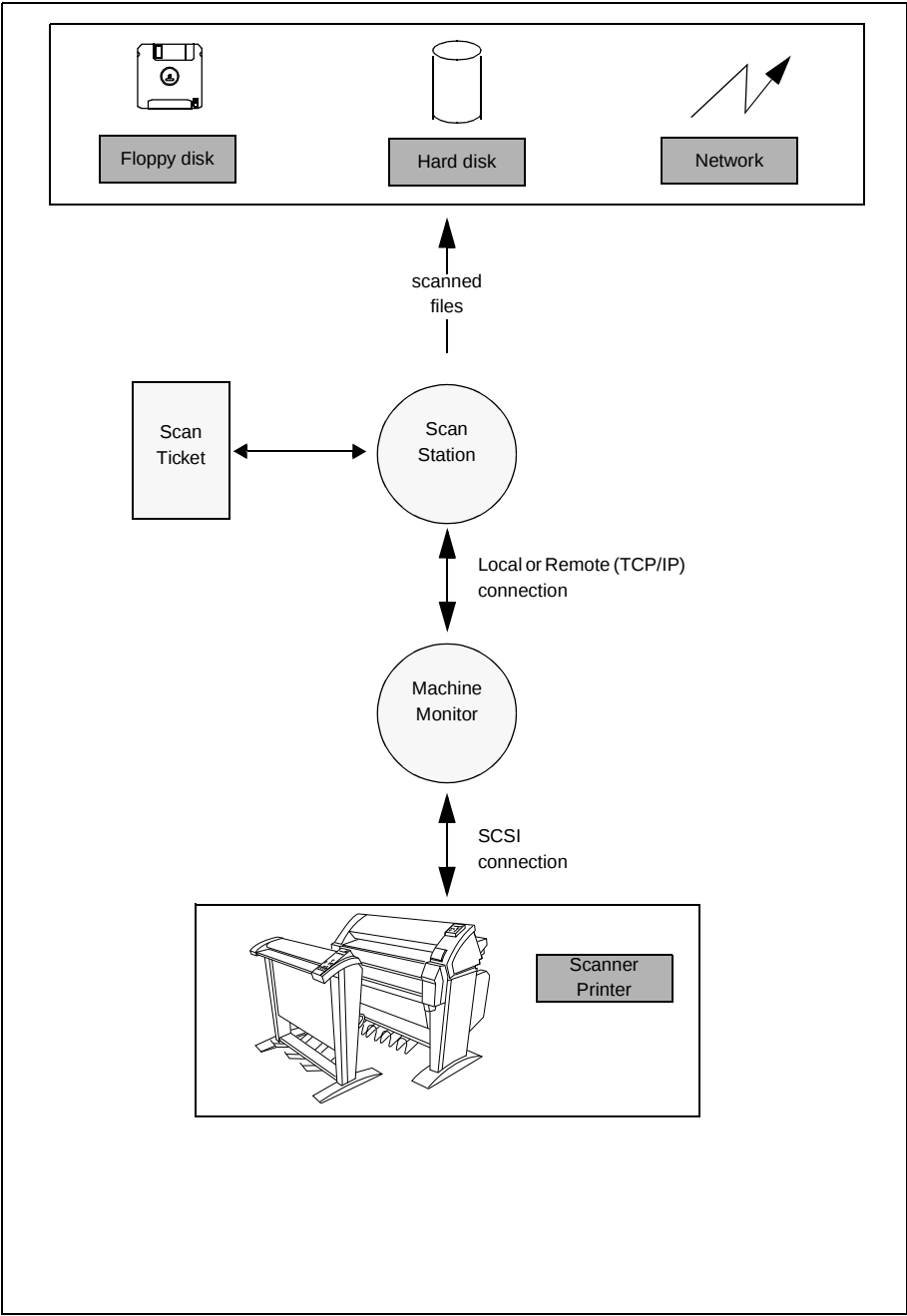
The scans can be viewed on the Scan Station screen with the built-in viewer, or on paper when a check plot is requested.

Océ Scan Station 9400 series Océ Scan Station 9400 series is a Microsoft Windows application which allows you to control the scanning (also called upload) process. You can specify settings like resolution and file format. You also specify where the resulting files must be stored, which can be a network disk. When a file has been received by Scan Station you may view it on the PC's screen to check the quality of the scan. If you are using a software application to generate Scan Tickets, the required settings on Scan Station will be made automatically for each drawing.

For more information, see the Océ Scan Station 9400 series User Manual.

Machine Monitor Machine Monitor provides the communication between the Océ Scan Station 9400 series and the Océ 9400 series printer/scanner.

This manual describes Machine Monitor in more detail.



[2] Océ 9400 scanning concept

Using this manual

This manual is intended for the operator of Machine Monitor. The user of Machine Monitor is often also the operator of the Océ printer/copier. It is assumed that you have some understanding of the Océ printer. More information can be found in the User Manual of the appropriate printer.

This manual explains:

- how to install Machine Monitor and how to get things up and running (see chapter 2, ‘Getting started’ on page 15).
- how to use Machine Monitor (see ‘Using Machine Monitor’ on page 39).

Related documentation for Océ 9700/9800 connection

Océ 9800 Copier Printer User Manual
Océ 9800 Printer User Manual
Océ 9700 Copier Printer User Manual
Océ 9700 Printer User Manual
Océ Job Director User Manual
Océ Repro Station User Manual
Océ Scan Station User Manual
Océ View Station User Manual
Océ Job Ticket Interface Programmer’s Manual
Océ Remote Control Format Reference Manual

Related documentation for Océ 9400 series connection

Océ 9400 User Manual
Océ 9400-II User Manua
Océ 9400 Scan Station User Manual
Océ View Station User Manual

Chapter 2

Getting started

How to install the software on your Windows PC. What preparations are required before you can actually use it.



Installation

The recommended hardware for Machine Monitor is:

- a PC with Pentium 90 MHz Intel processor, running Windows 95 or Windows NT version 3.51 or 4.0.

Note: *Although not recommended, Machine Monitor will also run on Windows version 3.1/3.11.*

- internal memory of 32 MByte.
- a PC SCSI-Board (Adaptec 2940AU) including EZ-SCSI software.
- a TCP-IP network (needed for remote connections).

Before installing Machine Monitor, you must install the SCSI connection to the printer.

▼ Installing the SCSI connection

- 1 Install the Adaptec SCSI board on the PC.
- 2 Install the EZ-SCSI software.
- 3 Connect the Océ 9400/9700/9800 and make sure that it is recognized as 'Tandberg TDC 3600'.

Attention: *Normally you will install Machine Monitor automatically with other applications, like Repro Station or Scan Station. However, it is possible to install Machine Monitor separately, as described in the following procedure.*

▼ Installing Machine Monitor

- 1 Insert the CD ROM into the CD ROM drive.
- 2 Now follow the instructions in the CD ROM's booklet.

Starting Machine Monitor

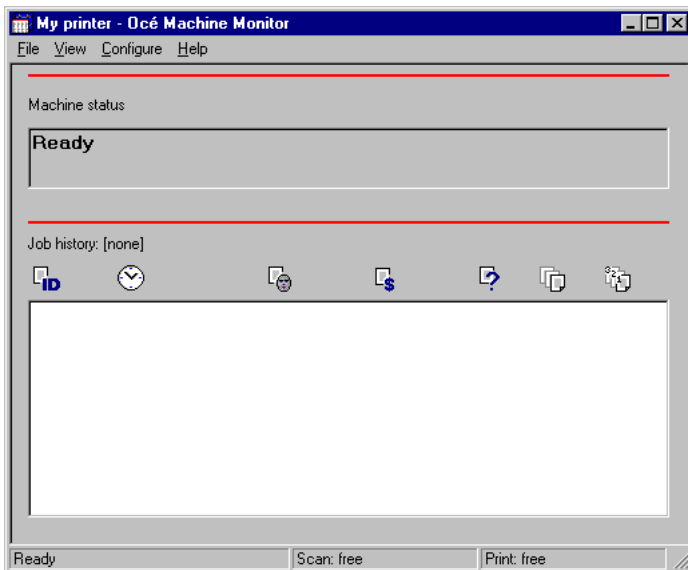
You can start Machine Monitor in several ways, just like any other Windows program. Follow the procedure below. Stopping Océ Machine Monitor is explained in ‘Quitting Machine Monitor’ on page 37.

Starting manually

Note: *Machine Monitor must be running before Repro Station or Scan Station can make a connection.*

▼ **To start Océ Machine Monitor manually**

- 1 Switch on the printer.
- 2 If the printer is ready, switch on the PC.
- 3 Start MS-Windows.
- 4 Double-click the Machine Monitor-icon in the program group you just created.
The Machine Monitor main window will be displayed as shown in the illustration below:



[3] Machine Monitor main window

Note: Depending on the selected printer type, the main window may look differently.

The very first time you start Machine Monitor:

- 1 You must enter your name and the name of your company. This will be displayed on the start up screen.

Note: The first time you start Machine Monitor, it creates an initialization file named *ocemm.ini* in the directory in which the software is installed. This file contains your default settings.

Starting automatically

Put Machine Monitor in the Start Up group. When Windows is started, Machine Monitor is started automatically.

▼ To start Machine Monitor automatically

- 1 Switch on the printer.
- 2 If the printer is ready, switch on the PC.
- 3 Start MS-Windows.

If Machine Monitor is put in the Start Up group, it will be started up automatically.

Starting via Repro Station or Scan Station

When you have selected Local network in Repro Station or Scan Station, and you start these applications, Machine Monitor is started automatically, if not already running.

▼ To start Machine Monitor via Repro Station or Scan Station

- 1 Switch on the printer.
- 2 If the printer is ready, switch on the PC.
- 3 Start up Repro Station or Scan Station.

If you have selected 'Local network' in these applications, Machine Monitor will be started up automatically.

Preparations for Océ 9700/9800

After the first installation you need to define several settings, as described in the following sections.

When your printer supports ‘backchannel communication’, the following settings are filled in automatically when the printer is connected and running:

- Printer configuration:
 - Machine ID
 - Measurement units (mm or inch)
 - Finishing devices (folder, puncher...)
- Installed media:
 - For each roll: width and medium (paper, polyester...)
- Printer stamps:
 - All stamp strings as defined on the printer

If one of these auto-filled settings is changed on the printer, it will automatically be changed on Machine Monitor as well.

Auto-filled settings are indicated with a * sign in the following procedures. In the according windows, they are presented as ‘read-only’ information.

The proper sequence is:

- 1 Connect PC and printer via SCSI.
- 2 Switch on the printer.
- 3 If the printer is ready, switch on the PC.
- 4 Make the required settings in the order as described below.

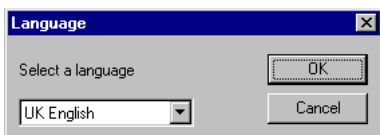
Defining the interface language

You can set the language of Machine Monitor menus, dialog boxes and online help as follows:



Setting the interface language

- 1 From the Configure menu choose Language.
The following dialog box appears:



[4] Language window

- 2 Open the drop-down list box and select the appropriate language.
- 3 Click OK.

The working language of Machine Monitor will be changed.

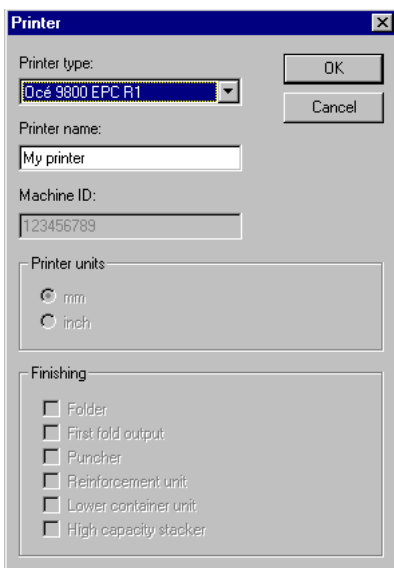
Defining printer configuration

Machine Monitor must have some information about the features supported by your printer. You have to specify whether your printer uses mm or inches and which output and finishing devices are present.



Specifying the printer configuration

- 1 From the Configure menu choose Printer.
The Printer dialog box appears:



[5] Printer dialog box

- 2 Specify the printer type:
 - Océ 9800 EPC: For current version of the Océ 9800 with backchannel communication.
 - Océ 9800 FBBS: Only for older versions of the Océ 9800 without backchannel communication.
 - Océ 9700 EPC: For connection to the Océ 9700.
- 3 Specify a printer name.

You are free to specify your own printer name. This name will appear in the title bar of the main window.
- 4 Enter the machine ID*
- 5 Click either one of the units* which your printer is configured to use (mm or inch).
- 6 Click the appropriate check boxes of the finishing devices*, corresponding to your particular printer configuration.
- 7 Click OK to save your settings or click Cancel to discard the changes.

Defining SCSI

Use the SCSI setup dialog box to configure the SCSI parameters of the Machine Monitor PC. This needs to be done only once after installation of Machine Monitor.

The 'Scan for SCSI devices' function scans the SCSI bus and returns the available Host adapter ID/Target ID pairs in the list box. Select the pair that belongs to the attached printer.

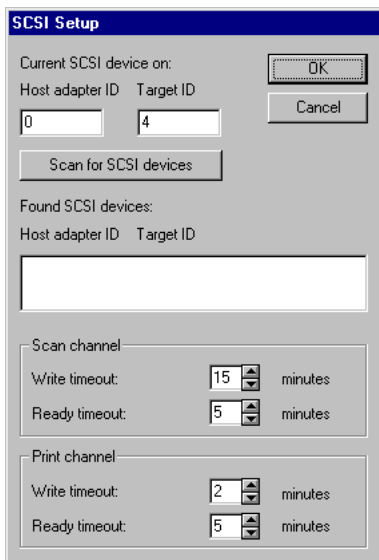
The Ready time out is the time you allow the system to receive data from the printer or from the scanner.

The Write time out is the time you allow the system to try to transmit data to the printer or to the scanner.

Defining SCSI setup

- 1 Switch printer and scanner on and wait until they are ready.
- 2 From the Configure menu select SCSI.

The SCSI setup dialog box appears:



The SCSI Setup dialog box is a window with a blue title bar. It contains several sections: 'Current SCSI device on:' with a list box and 'OK' button; 'Host adapter ID' and 'Target ID' with input boxes (0 and 4) and a 'Cancel' button; a 'Scan for SCSI devices' button; a 'Found SCSI devices:' section with a list box; a 'Scan channel' section with 'Write timeout' (15 minutes) and 'Ready timeout' (5 minutes) spinners; and a 'Print channel' section with 'Write timeout' (2 minutes) and 'Ready timeout' (5 minutes) spinners.

[6] SCSI dialog box

- 3 Click the Scan for SCSI devices button.
- 4 Click the SCSI ID pair that belongs to the attached printer.
The IDs will be copied to the Host adapter ID and Target adapter ID boxes in the SCSI setup window.
- 5 Specify the write timeouts for printing and scanning.
- 6 Specify the ready timeouts for printing and scanning.
- 7 Click OK to save your settings or click Cancel to discard the changes.

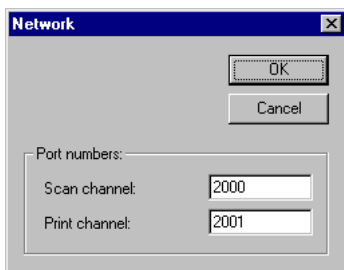
Defining network

This setting specifies the socket/network connections that are available for your applications. You need to specify the port number to which Repro Station and Scan Station can connect.



Specifying network

- 1 From the Configure menu choose Network.
The following window appears:



[7] Network setup dialog box

- 2 Enter the number of the scanner port.
- 3 Enter the number of both printer ports.
- 4 Click OK to save your settings or click Cancel to discard the changes.

Normally the default values do not have to be changed. If however, another application already uses these ports, you may choose another port number here. Default the following port numbers are used:

- Océ Scan Station: 2000
- Océ Repro station: 2001.

When you change the port numbers here, you must also change the port number in the Scan Station or Repro Station application.

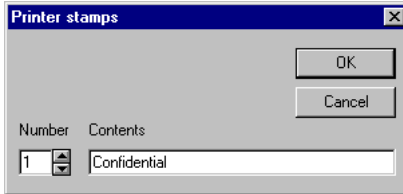
Defining printer stamps

In the Stamp dialog box the printer stamps are specified.

▼ Specifying printer stamps

- 1 From the Configure menu choose 'Printer stamps'.

The following dialog box appears:



[8] Stamp dialog box

- 2 Specify a number, ranging from 1 to 50 to identify the stamp.
- 3 In the Context box, type the stamp string* as it is currently defined in the printer.
- 4 If required, repeat step 2 and 3 until you have defined all available strings.
- 5 Click OK to save your settings or click Cancel to discard the changes.

Defining a list of users and accounts

You can define a list of users and accounts, e.g. departments, to allow print job management. This list is used for the following purposes:

- Statistics
In the list a number is assigned to each user and account. This number is used for statistical purposes (job logging) by Machine Monitor.
- Print permission
In Repro Station you can restrict printing. If this option is selected, only users and/or accounts that are defined in the list are allowed to send jobs to the printer.
- Bin selection High Capacity Stacker
If your printer is equipped with a High Capacity Stacker, you can use the list to define which output bin should be used for a specified user and/or account. In Repro Station you can define if this specified bin is to be used.

Note: The assignment of output bins to the list of users and accounts can only be made in Repro Station.

■ Assigning user and account names to Scan Station jobs.

In Scan Station you can select user and account names from the list to assign to scan jobs and check plots.

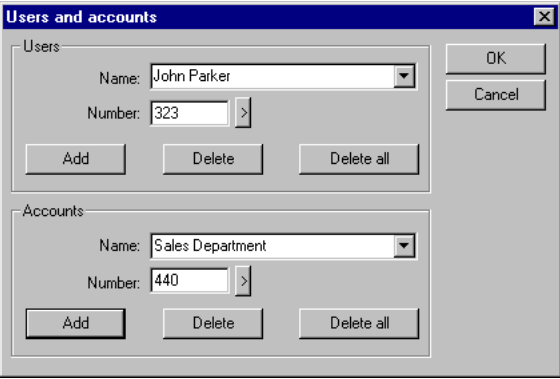
You can define a list of users and accounts in Repro Station, Machine Monitor and Scan Station. If the applications are installed correctly, only *one* list of users and accounts is used. You can use any of the named applications to add users and accounts to this list, or to remove them.

Attention: Only if Machine Monitor, Repro Station and Scan Station are installed on the same PC and in the same directory, the named applications will use the same list: the ASCII file 'accounts.txt'. If installed on different PC's, after changing the list you must copy the file 'accounts.txt' in the directory 'Accounts' (one directory higher than the directory where the Océ software resides) to the same place on the PC where the software of the other named applications resides.



Adding Users and accounts to the list

- 1 From the Configure menu, choose 'Users and accounts'.
The Users and Accounts dialog box appears.



[9] The Users and accounts dialog box

- 2 In the Name box of the Users and/or Accounts, type the respective name of the user or account user you wish to define.
For example, an account name could be the name of a department: 'Sales'.
- 3 In the Number box, type the number you wish to assign to the user or account (you can enter up to 9 digits). If you click the button that is located at the right side of the number field, the first free number (following the currently

displayed number) will appear. This number is not in use for other users or accounts.

- 4 Choose the Add button.
- 5 Repeat steps 2 to 4 to add all the users and accounts of your choice.
- 6 Click the OK button.



Removing Users and accounts from the list

- 1 From the Configure menu, choose 'Users and accounts'.
The Users and Accounts dialog box appears (see figure 9).
- 2 Click the button behind the Name box of the Users and/or Accounts to select a user or account you want to remove from the list.
- 3 Click the appropriate 'Delete' button to remove the selected user or account from the list.
- 4 If you want to remove all users or all accounts from the list, click the appropriate 'Delete all' button.
- 5 Click the OK button.

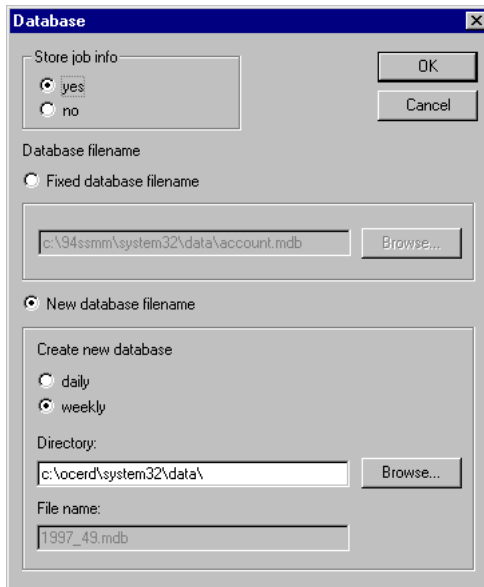
Defining job information (statistics)

You can specify the data base file, to which the job information of all jobs will be written. You can also specify that at regular times a new database file must be created automatically.



Specifying Database

- 1 From the Configure menu choose Database.
The Database dialog box appears:



[10] Database dialog box

- 2 Select Store job info: Yes/No.
- 3 If you selected Yes, define one of the following options:
 - Fixed database filename:
Use the Browse button to define the directory and name of the database file.
 - New database filename
Select how often a new database file must be created: daily/weekly.
Use the Browse button to define the directory in which the database files should be written. The name of the database files will be generated automatically, depending on the previous setting:
 - daily: for example 96_10_11.mdb if the date is 11 October 1996.
 - weekly: for example 1996_41.mdb if the date is in week number 41 of 1996.
- 4 Click OK to save the changes, or click Cancel to discard the changes.

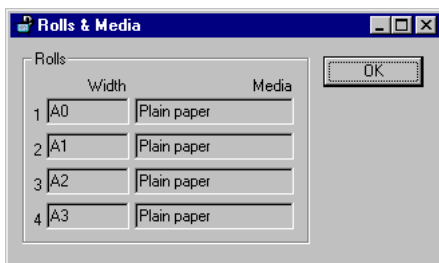
Defining rolls and media

The rolls and media settings you have to specify are the following:

- the available media
- the available roll widths

▼ Specifying installed rolls and media

- 1 From the Configure menu choose 'Rolls and media'.
The Rolls and Media dialog box appears:



[11] Media dialog box

Note: *The Océ 9700 supports maximal three rolls.*

- 2 If your printer supports back channel communication, these are read only fields*.
If your printer does not support back channel communication, make the settings manually.
- 3 Click Apply to save the changes or click Cancel to discard the changes.

Defining preferences

The Preferences dialog box is used to:

- specify whether Machine Monitor should come up as a window or as an icon
- specify if and how you want to be informed about errors
- specify how often the printer is asked for status and job information.

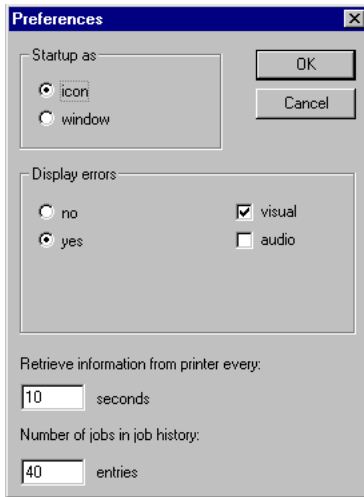
Note: *The printer keeps information of a maximum of 50 jobs in memory. All available information is provided when asked for by Machine Monitor.*

- specify the number of jobs in the history list on the screen



To specify preferred settings

- 1 From the Configure menu choose Preferences.
The Preferences dialog box appears:



[12] Preferences dialog box

- 2 Click the required startup method.
- 3 Click the required action if an error occurs: display of errors (yes or no), visual or audio.
- 4 Specify how often the printer is asked for status and job information.
- 5 Specify the number of jobs in the history list on the screen.
Note: *This does not affect the logging of jobs in the database, just the length of the list in the main window.*
- 6 Click OK to save the changes or click Cancel to discard the changes.

Preparations for Océ 9400 series

After the first installation you need to define several settings, as described in the following sections.

The proper sequence is:

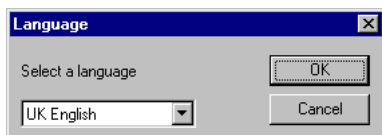
- 1 Connect PC and printer via SCSI.
- 2 Switch on the printer.
- 3 If the printer is ready, switch on the PC.
- 4 Make the required settings in the order as described below.

Defining the interface language

You can set the language of Machine Monitor menus, dialog boxes and online help as follows:

▼ **Setting the interface languageseries**

- 1 From the Configure menu choose Language.
The following dialog box appears:



[13] Language window

- 2 Open the drop-down list box and select the appropriate language.
- 3 Click OK.

The working language of Machine Monitor will be changed.

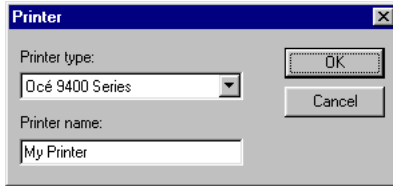
Defining printer configuration

You must specify the type of printer you want to connect to. This setting determines the appearance of the main window, and the contents of several menus.



Specifying the printer configuration

- 1 From the Configure menu choose Printer.
The Printer dialog box appears:



[14] Printer dialog box

- 2 Select the printer type: Océ 9400 series.
- 3 Specify a printer name.
You are free to specify your own printer name. This name will appear in the title bar of the main window.
- 4 Click OK to save your settings or click Cancel to discard the changes.

Defining SCSI

Use the SCSI setup dialog box to configure the SCSI parameters of the Machine Monitor PC. This needs to be done only once after installation of Machine Monitor.

The 'Scan for SCSI devices' function scans the SCSI bus and returns the available Host adapter ID/Target ID pairs in the list box. Select the pair that belongs to the attached printer.

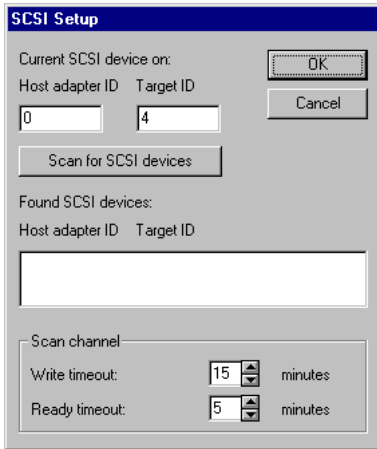
The Ready time out is the time you allow the system to receive data from the Océ 9400.

The Write time out is the time you allow the system to try to transmit data to the Océ 9400.

Defining SCSI setup

- 1 Switch printer and scanner on and wait until they are ready.
- 2 From the Configure menu select SCSI.

The SCSI setup dialog box appears:



[15] SCSI dialog box

- 3 Click the Scan for SCSI devices button.
- 4 Click the SCSI ID pair that belongs to the attached printer.
The IDs will be copied to the Host adapter ID and Target adapter ID boxes in the SCSI setup window.
- 5 Specify the write timeout for scanning.
- 6 Specify the ready timeout for scanning.
- 7 Click OK to save your settings or click Cancel to discard the changes.

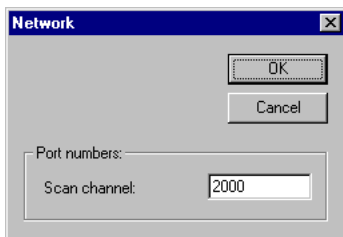
Defining network

You need to specify the port number to which Scan Station can connect.



Specifying network

- 1 From the Configure menu choose Network.
The following window appears:



[16] Network setup dialog box

- 2 Enter the number of the scanner port.
- 3 Click OK to save your settings or click Cancel to discard the changes.

Normally the default value does not have to be changed. If however, another application already uses this port, you may choose another port number here. Default the following port number is used:

- Océ Scan Station: 2000

When you change the port number here, you must also change the port number in the Scan Station application.

Defining a list of users and accounts

You can define a list of users and accounts, e.g. departments, assigning a number to each user and account. In Scan Station you can select user and account names from the list to assign to scan jobs and check plots. Scan Station will write the numbers of the selected user and account in a log file.

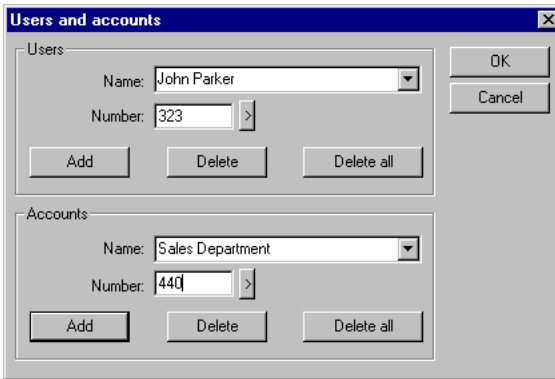
You can define a list of users and accounts in Machine Monitor and Scan Station. If the applications are installed correctly, only *one* list of users and accounts is used. You can use any of the named applications to add users and accounts to this list, or to remove them.

Attention: Only if Machine Monitor and Scan Station are installed on the same PC and in the same directory, the named applications will use the same list: the ASCII file 'accounts.txt'. If installed on different PC's, after changing the list you must copy the file 'accounts.txt' in the directory 'Accounts' (one directory higher than the directory where the Océ software resides) to the same place on the PC where the software of the other named application resides.



Adding Users and accounts to the list

- 1 From the Configure menu, choose 'Users and accounts'.
The Users and Accounts dialog box appears:



[17] The Users and accounts dialog box

- 2 In the Name box of the Users and/or Accounts, type the respective name of the user or account user you wish to define.
For example, an account name could be the name of a department: 'Sales'.
- 3 In the Number box, type the number you wish to assign to the user or account (you can enter up to 9 digits). If you click the button that is located at the right side of the number field, the first free number (following the currently displayed number) will appear. This number is not in use for other users or accounts.
- 4 Choose the Add button.
- 5 Repeat steps 2 to 4 to add all the users and accounts of your choice.
- 6 Click the OK button.



Removing Users and accounts from the list

- 1 From the Configure menu, choose 'Users and accounts'.
The Users and Accounts dialog box appears (see figure 17).
- 2 Click the button behind the Name box of the Users and/or Accounts to select a user or account you want to remove from the list.
- 3 Click the appropriate 'Delete' button to remove the selected user or account from the list.
- 4 If you want to remove all users or all accounts from the list, click the appropriate 'Delete all' button.
- 5 Click the OK button.

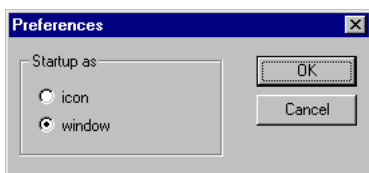
Defining preferences

The Preferences dialog box is used to specify whether Machine Monitor should come up as a window or as an icon

▼ To specify preferred settings

- 1 From the Configure menu choose Preferences.

The Preferences dialog box appears:



[18] Preferences dialog box

- 2 Click the required startup method.
- 3 Click OK to save the changes or click Cancel to discard the changes.

Quitting Machine Monitor

You can stop Machine Monitor by selecting Exit from the File menu. Any current job is finished, except if you really want to stop in the middle of a transfer. Depending on the currently active process (printing, scanning or copying) a message comes up asking if the current job must be aborted or not.



Stop Machine Monitor

- 1 From the File menu choose Exit.

You are asked if the active print or scan process must be aborted or not.

Using help

On-line help for Machine Monitor is a quick and convenient way to look up information about a task you are performing, a feature you would like to know more about, or a command you want to use.

Help is available whenever you see a Help command button, or help as an item on the menu bar.

When you select help from the menu, the first page of Machine Monitor help appears.



Using the Help menu

- 1 From the Help menu choose Contents.

You can also press F1 at any time for help information. For menus, the Status bar at the bottom of the window also displays a one-line text to explain the purpose of the currently selected menu item.

Chapter 3

Using Machine Monitor

How to use Machine Monitor in combination with an Océ 9700/9800 or Océ 9400 series scanner/printer. The functions of the main window are explained.



Machine Monitor with Océ 9700/9800

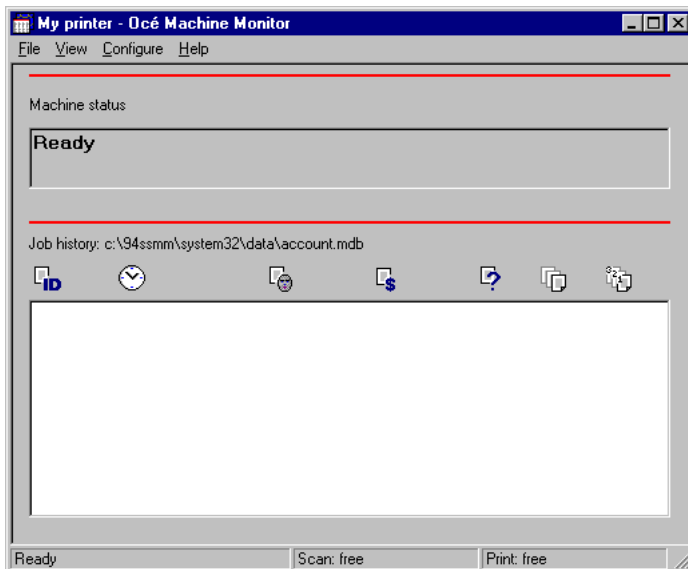
This section will explain the usage of Machine Monitor in combination with an Océ 9700/9800 printer/scanner with backchannel communication (EPC).

Note: *If you are using an Océ 9800 without backchannel communication (FBBS), the main window will not show information about job history or machine status, and you can not use the job history database.*

Window display

When the Machine Monitor is running, the main window may be minimized or opened.

Note: *In the Preference dialog box, you can select the ‘visual’ checkbox in the ‘Display errors’ field (see figure 12 on page 29). If this checkbox is selected, and the window is minimized, the icon or the windows button in the taskbar will periodically change when an error occurs.*



[19] Main window of Machine Monitor combined with Océ 9700/9800

Job history

The lower part of the main window shows the job history. At the top of this part the name of the current data base file is shown, followed by a list of jobs.

Note: *In the Preference dialog box you can define the number of jobs that are listed here (see figure 12 on page 29).*

The following information is shown for each job that is copied, printed or scanned:

- Job ID
- Data and time the job was finished
- User ID
- Account ID
- Job type: Copy, Print or Scan
(If the job is part of a matrix job, the # sign is displayed)
- Number of originals or files
- Total number of copies of the copy or print job

Using the job history database

Machine Monitor creates an MS Access database, compatible with the Open Data Base Connection (ODBC) standard. You can use (or develop your own) applications for advanced usage of the database. The exact contents is described in Appendix A: 'Data Base Contents' on page 47.

Machine status

The upper part of the main window shows the machine status. Normally, the status is 'Ready' or 'Machine running'. Other messages that may appear are listed below:

- Covers open...
- Service diagnostic mode...
- Warming up...
- Machine running...
- Printer needs attention!

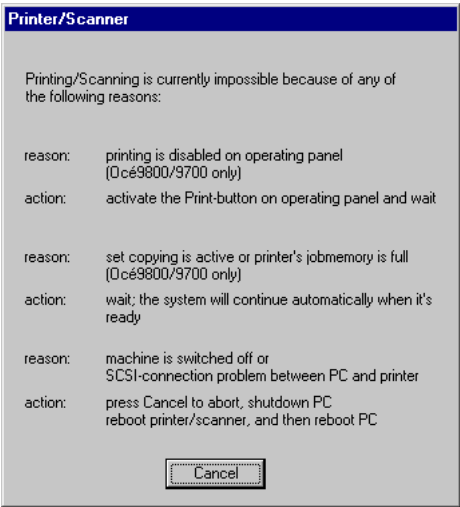
Printer error

If a printer error occurs, the machine status ‘Printer needs attention!’ is displayed on the screen, and/or an audio signal is played once (see ‘Defining preferences’ on page 28). Solving the problem automatically removes the error message.

Note: *Also check the display of the printer or scanner for more detailed error messages.*

Connection error

If a connection error occurs, the following window will appear:



[20] Connection error

Different problems may cause this message to appear on the screen. Depending on the kind of problem one of the following actions are recommended:

Printing is disabled Check the function button ‘Print’ on the main menu of the operating panel of the Océ 9700/9800. If this function is not activated, printing is disabled. In that case press the function button ‘Print’ to enable printing.

Set copying is active If someone is feeding originals for a *set copy* job on the Océ 9700/9800, printing is disabled. After feeding all originals that belong to

the set, the end of the set must be confirmed by pressing the 'Start' button on the operating panel. This will enable the receiving of print jobs automatically.

Job memory of the printer is full Check the memory indicator on the main menu of the operating panel (this indicator is only shown on the operating panel of the Océ 9800). If the memory is full and printing is enabled, the Océ 9700/9800 will continue to receive new print jobs automatically if the required amount of memory is available.

The Océ 9700/9800 is switched off If the Océ 9700/9800 is switched off, you must switch on the system and wait until it is ready. If the message on the PC screen does not disappear, press 'Cancel' and shut down the PC. Shut down the Océ 9700/9800 and start it up again. Wait until the system is ready. Then start up the PC and the required software applications.

SCSI connection failed If you have checked all the other possible causes, probably the SCSI connection has failed. In that case press cancel and shut down the PC and the Océ 9700/9800. Check the SCSI connection for damages to the cable and the connectors at the PC and the printer side. If the connection is OK you can start up the Océ 9700/9800 and wait until the system is ready. Then start up the PC and the required software applications.

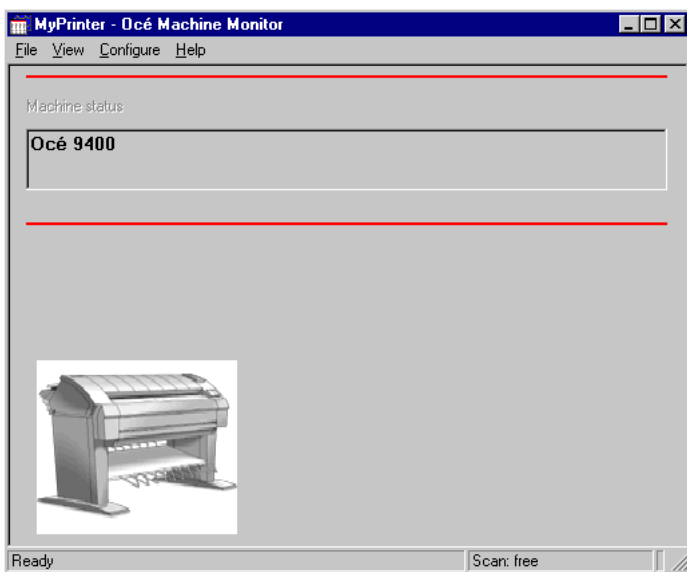
Machine Monitor with Océ 9400 series

If Machine Monitor is combined with an Océ 9400 scanner/printer, it is not possible to show information about job history or machine status in the main window.

Océ Scan Station 9400 series provides the possibility to collect job history informations about scan jobs in a log file. For more information see the Océ Scan Station 9400 series User Manual.

Window display

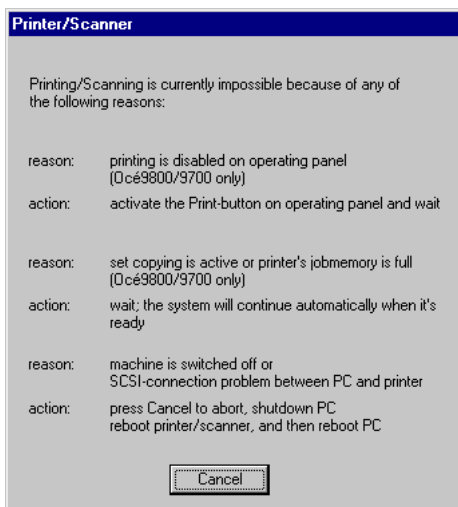
When the Machine Monitor is running, the main window may be minimized or opened.



[21] Main window of Machine Monitor combined with Océ 9400 series

Connection error

If a connection error occurs, the following window will appear:



[22] Connection error

Different problems may cause this message to appear on the screen. Depending on the kind of problem one of the following actions are recommended:

The Océ 9400 is switched off If the Océ 9400 is switched off, you must switch on the system and wait until it is ready. If the message on the PC screen does not disappear, press 'Cancel' and shut down the PC. Switch off the Océ 9400 and start it up again. Wait until the system is ready. Then start up the PC and the required software applications.

SCSI connection failed If the printer is switched on and ready to print, probably the SCSI connection has failed. In that case press cancel and shut down the PC and the Océ 9400. Check the SCSI connection for damages to the cable and the connectors at the PC and the printer side. If the connection is OK you can start up the Océ 9400 and wait until the system is ready. Then start up the PC and the required software applications.

Appendix A

Data Base Contents

If Machine Monitor is connected to an Océ 9700/9800 printer with backchannel communication, you can use a database to collect job information. The contents of this data base is explained.



Data Base Contents

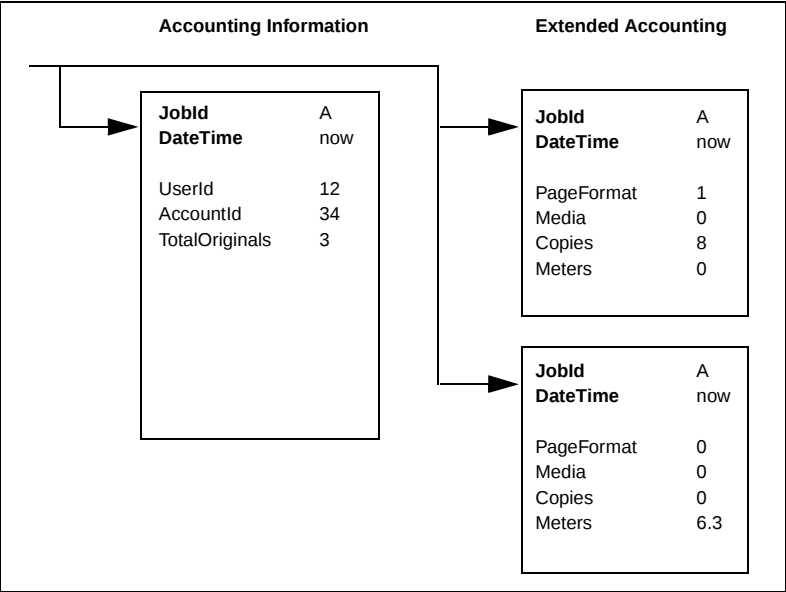
The following tables show which information will be accounted in the job information database (one .mdb file).

For each copy/print/scan job, or for each matrix program, the job info and the paper usage is stored. They are linked with the same “JobId” and “DateTime”, and uniquely identified by the “Key”.

The paper usage is accounted like this:

- for standard formats, the number of copies is counted
- for non-standard formats, the amount of paper from a specific roll is given

For example, a job produces 3 landscape A1s (from the A0 roll), 5 portrait A1s from the A1 roll, and a 6.3 meter plot from the A0 roll (all plain paper).



[23] Example of job information (statistics)

So the statistics (reporting) application has to find the corresponding records and calculate the amount of paper used.

Note: *Manual feed input is accounted by selecting another kind of media.*

Accounting Information

Information for each job:

<i>Accounting Information</i>	<i>type</i>	<i>description</i>
Key	Number (Long)	unique identification of a database entry
JobId	Number (Long)	identification of the job
AccountId	Number (Long)	identification of the account number
UserId	Number (Long)	identification of the user number
MachineId	Number (Long)	identification of the machine
DateTime	Date/Time	date and time the record was created (i.e. the job was accounted)
PrintType	Number (Byte)	type of job: 0 = plot, 1 = copy, 2 = scan
SortType	Number (Byte)	sorting: 0 = sort by page, 1 = sort by set
TotalOriginals	Number (Long)	total number of originals in the job, i.e. entries in the printer's memory (each entry is one "page")
TotalFolded	Number (Long)	total number of folded output pages
TotalPunched	Number (Long)	total number of punched output pages
TotalReinforced	Number (Long)	total number of reinforced output pages
TotalStamped	Number (Long)	total number of output pages with a printer stamp
TotalEdited	Number (Long)	total number of edited output pages
TotalEnlarged	Number (Long)	total number of enlarged (zoom > 100%) output pages
TotalReduced	Number (Long)	total number of reduced (zoom < 100%) output pages
PaperPrints	Number (Long)	total number of output pages on plain paper
PaperClicks	Number (Long)	total number of plain paper media clicks
PolyesterPrints	Number (Long)	total number of output pages on ployester
PolyesterClicks	Number (Long)	total number of polyester media clicks
TransparentPrints	Number (Long)	total number of output pages on transparent media
TransparentClicks	Number (Long)	total number of transparent media clicks
ScanResolution	Number (Integer)	scan resolution in dpi
ScanFileFormat	Number (Byte)	scan file format: 0 = TIFF, 1 = CALS

[24] Accounting Information

<i>Accounting Information</i>	<i>type</i>	<i>description</i>
ScanWidth	Number (Long)	scan width in pixels
ScanHeight	Number (Long)	scan length in pixels
ScanFileSize	Number (Double)	scan file size in bytes
ScanFileName	Text	name of the scanned file as it is stored on the host disk
JobName	Text	name of the job
PlotNumberOf-Files	Number (Integer)	number of files in the print job
UserName	Text	name of the user; derived from the UserId
AccountName	Text	name of the account; derived from the AccountId
JobType	Number (Byte)	type of job: 0 = normal job, 1 = matrix job

[24] Accounting Information

Extended Accounting

The following table contains information about the paper sizes and media used. For each job, multiple records of this type are present; they are linked to Job Information by common JobID and DateTime fields.

<i>Extended Accounting</i>	<i>type</i>	<i>description</i>
Key	Number (Long)	unique identification of a database entry
JobId	Number (Long)	identification of the job
DateTime	Date/Time	date and time the record was created (i.e. the job was accounted)
PaperFormat	Number (Byte)	format of the output pages (for standard sizes), or width of the output (for non-standard sizes); 0 = A0 1 = A1 2 = A2 3 = A3 4 = A4 5 = E, 34" x 44" 6 = D, 22" x 34" 7 = C, 17" x 22" 8 = B, 11" x 17" 9 = A, 8.5" x 11" 10 = E+, 36" x 48" 11 = D+, 24" x 36" 12 = C+, 18" x 24" 13 = B+, 12" x 18" 14 = A+, 9" x 12" 15 = B1, 707 x 1000 mm 16 = B2, 500 x 707 mm 17 = B3, 353 x 500 mm 18 = B4, 250 x 353 mm 19 = 30" x 42" 20 = 500 x 707 mm 21 = 707 x 1000 mm
Media	Number (Byte)	media type: 0 = plain paper, 1 = transparent, 2 = polyester, 3 = manual
Copies	Number (Integer)	number of copies for this (standard) format and media
Meters	Number (Double)	number of meters printed for this (non-standard) format/width and media

[25] Extended Accounting

Appendix B

Miscellaneous



Notation conventions

There are a number of notation conventions used in this manual. This consistent style enables you to quickly become conversant with the use of this manual and consequently the Océ Machine Monitor.

Description Each section or subsection contains a description of the feature or operation identified in the title. It might also include possible applications, as well as any guidelines that you should bear in mind.

Procedures A description is followed by a procedure. A procedure always begins with a phrase which briefly describes the procedure, followed by a series of numbered steps that take you, step by step, through all phases of performing the operation.

Figures and tables Figures and tables are titled and numbered sequentially throughout this manual. Figures include pictures of product components, screendumps, examples, and diagrams of concepts discussed in the description.

Attention getters There are several types of information to which we draw your attention. This information is classified as follows:

Note: *In a 'Note', information is given about matters which ensure the proper functioning of the machine or application, but useful advice concerning its operation may also be given.*

Attention: *The information that follows 'Attention' is given to prevent something (your copy or original, the copier or printer, data files etc.) being damaged.*

Caution: *The information that follows 'Caution' is given to prevent you suffering personal injury.*

Reader's comment sheet

Have you found this manual to be accurate?

- ☐ Yes
- ☐ No

Could you operate the product after reading this manual?

- ☐ Yes
- ☐ No

Does this manual provide enough background information?

- ☐ Yes
- ☐ No

Is the format of this manual convenient in size, readability and arrangement (page layout, chapter order, etc.)?

- ☐ Yes
- ☐ No

Could you find the information you were looking for?

- ☐ Always
- ☐ Most of the times
- ☐ Sometimes
- ☐ Not at all

What did you use to find the required information?

- ☐ Table of contents
- ☐ Index

Are you satisfied with this manual?

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- ☐ No

Thank you for evaluating this manual.

If you have other comments or concerns, please explain or suggest improvements overleaf or on a separate sheet.

7114446

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