



**NetOrder Printer Driver for Mac OS X**

**Market Requirement Document**

**Noritsu America Corporation**

**V1.0**

### **Purpose:**

This document is intended to define the Mac OS X printer driver requirements for Noritsu NetOrder.

### **Naming Conventions**

- NetOrder: Name of the programming interface to Noritsu printer.
- NPS: (Noritsu Printing Service) A renewed programming interface used for communication with Noritsu printer models QSS-35PLUS, M300, and later.
- NTOC: (NetOrder Converter) An application to receive orders via NetOrder and convert them to output on an NPS printer, allowing NPS printers to receive orders from applications which are utilizing the NetOrder API.
- QSS: A Noritsu product model name prefix typically used for AgX printers.
- AgX: silver halide, representing a traditional photographic process
- Errors / Attentions: Error and attention messages which are sent from Noritsu printer. Error messages are generated when a critical error happens (ex. Paper jam, printer system error, printer door is opened while printer is running, etc.). Attention messages are generated when the printer condition has changed which the operator needs to see (ex. Paper is empty, printer door is opened while printer is idle, etc.).
- Back Print: Paper back character printing primarily used for order / print identification.

## Requirements:

### 1.1 Print Capability

#### Functions:

- Provide print capability for all Mac OS X applications which supports printing.
- This feature is executed by selecting [File] – [Print] from an application menu.
- This feature is executed by pressing ⌘ (command key) – P.

#### Criticality:

- Rank A

### 1.2 Print Dialog

#### Functions:

- Print Dialog should be displayed after [File] – [Print] (or ⌘P).
- The dialog should contain printer selection. The printer list should be populated from all registered printers in Mac OS X. (Rank A)
- The dialog should contain print count entry (Copies). (Rank A)
- The dialog should contain “Paper Size” selection. (Rank A)
- The “Paper Size” selection should support user defined custom sizes. (Rank A)
- The custom print size should have settings for paper width (in terms of 1/10 mm), length (1/10 mm) and paper surface number.
- The dialog should have Back Print text box for two lines. (Rank A)
- The Back Print text box should have a check box per each line to enable this feature or not. (Rank A)
- The Back Print text box should support special character sets. (Detail is described in later page).
- The dialog should support “Orientation” selection. (Rank B)

- The dialog should support “Scale” and the range is 1 to 10,000. (Rank B)
- The dialog should contain “Collated” check box to be functional. (Rank B)
- The dialog should contain “Pages” settings from All / From. “From” should support page range. (Rank B)
- The dialog should contain “Presets”. (Rank B)
- The “Presets” should support user defined presets. (Rank B)

### **1.3 Print & Fax in System Preferences**

#### **Functions:**

- The Noritsu printer should be able to register in “Print & Fax” in the “System Preferences” in the OS X.
- The registration should accept IP address of the Noritsu printer to designate the printer.

#### **Criticality:**

- Rank A

### **1.4 NetOrder Support**

#### **Functions:**

- The following NetOrder API versions should be supported
  - 1.05
  - 2.02

#### **Criticality:**

- Rank A (NetOrder 1.05)
- Rank B (NetOrder 2.02)

## 1.5 Errors and Attentions

### Functions:

- Errors and Attentions should be displayed in a dialog with the message body and message number. (The message body and number are provided from the printer.)
- The dialog should be displayed in a dialog box with [OK] button.
- The dialog should be closed by pressing above [OK] button.
- The dialog should be closed automatically if the condition is resolved.

### Criticality:

- Rank A

## 1.6 Back Print

### Functions:

- Back print should be supported according to the settings in the Print Dialog.
- Back print should support special characters to represent calculated text.
- Special characters to be supported are:

special code	print character
[C]	copyright mark (circle in "c") (to print, see below)
[R]	repeat count
[F]	file name
[P]	pc name
[U]	user name (log on name of PC)
[YY]	year of last 2 digits (ex. 2002 -> 02)
[YYYY]	year (ex. 2002)
[M]	month without leading 0 (ex. 1, 2, 3, .. , 12)
[MM]	month with leading 0 (ex. 01, 02, 03, .. , 10, 11, 12)
[D]	date without leading 0 (ex. 1, 2, 3, .. , 31)

[DD]	date with leading 0 (ex. 01, 02, 03, .. , 31)
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\* to write '[' or ']', user should add back slash ('\') before them (ex. \[ -> [ )

\* to write '\', user should input

'\\'

\* if OS doesn't has a user name (like MacOS9), nothing should be printed

## How to Specify a Copyright Mark

set 0x0e, 0xc1, 0x0f to back print data

### **Criticality:**

- Rank A

## 1.7 Foreign Language Support

### **Functions:**

- Foreign language should be supported with Apple standard foreign language support method.

### **Criticality:**

- Rank B

### **Platform:**

- Intel and PPC Macintosh
- Mac OS X 10.5.2 (later version support is preferred)

**Operating Environments:**

- Adobe Photoshop CS 3 as front-end application
- Adobe Lightroom as front-end application
- Apple Aperture 2 as front-end application
- Noritsu M300 as Noritsu printer with NetOrder Converter
- Noritsu QSS-35Plus as Noritsu printer with NetOrder Converter