

TD Bridge for Linux Technical Reference Guide

TD Bridge Overview

Specifications

Preparation

How to Use Software

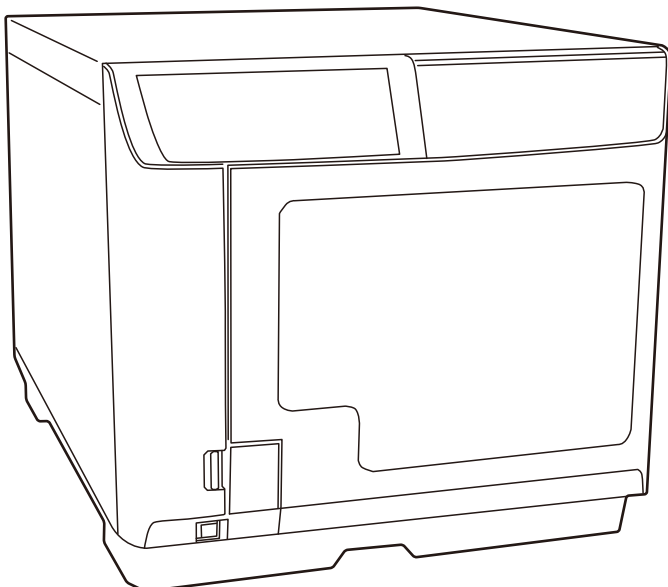
How to Use Sample Programs

Development Guide for a Cooperative Application

Troubleshooting

Appendix

Discproducer™



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For Your Safety

Meaning of Symbols

The following symbols are used throughout this guide in order to draw your attention to important information for handling the product.

 IMPORTANT	Indicates information with which you must comply when using the product. Mishandling due to ignoring this information may cause the product to fail or malfunction.
 NOTE	Indicates supplementary explanations and information you should know.

Restrictions of Use

When this product is used in a system that must have high reliability and safety level, such as a traffic control system for aircraft, trains, or ships, a disaster/crime-prevention system, safeguard system, please give due consideration to ensure overall system high reliability and safety. Employing fail-safe or redundancy design may be required for incorporating our product. This product is not intended to collaborate with extremely highly-reliable equipment such as aerospace equipment, communication equipment for mainline, atomic energy control equipment, medical equipment. If you are considering the use of this product with those equipment, please make sure to carefully evaluate the appropriateness of this product to decide whether to use or not.

About This Guide

Purpose

This guide is aimed to provide necessary information for development engineers who take charge of developing and designing a disc publishing system using Discproducer (PP-100III / PP-50II / PP-100NII).

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This guide consists of the following chapters.

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Images and Explanations in This Guide

The images and explanations in this guide are based on UOS. For other distributions and versions, replace them accordingly.

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TD Bridge Overview

This chapter provides an overview of TD Bridge for Linux and explains its functions. In addition to that, the following information is provided; system requirements, supported disc types, and system examples using TD Bridge with cooperative applications.

This manual uses "Discproducer" to collectively indicate the PP-100III, PP-50II and PP-100NII.

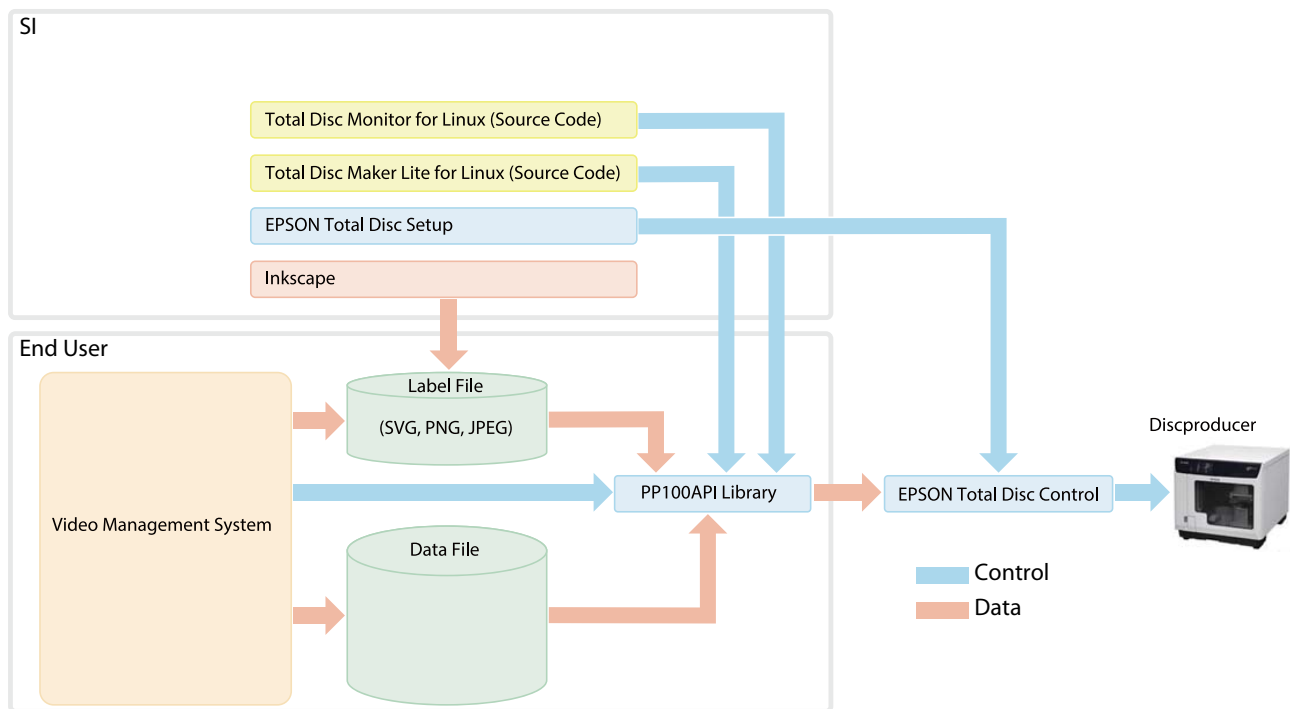
What is TD Bridge for Linux?

TD Bridge for Linux allows you to use the Discproducer series in a Linux environment.

Software Configuration

Item	Installation Folder	Explanation
TD Bridge for Linux Installer (epson-tdbridge-pp100api)	/opt/epson/Total Disc Maker	The following files are installed.
EPSON Total Disc Control daemon	/opt/epson/Total Disc Maker/bin	This program is used to control Discproducer.
PP-100 API library(.so)	/opt/epson/Total Disc Maker/lib	The library file and header file for using Discproducer from your program.
PP-100 API library(.h)	/opt/epson/Total Disc Maker/include	The library file and header file for using Discproducer from your program.
Total Disc Setup for Linux	/opt/epson/Total Disc Maker/bin	This software is used to register and set Discproducer.
Total Disc Maker Lite for Linux	/opt/epson/Total Disc Maker/bin	The sample programs with GUI are used to register the write data and label side print data and to publish discs with Discproducer.
Total Disc Monitor for Linux	/opt/epson/Total Disc Maker/bin	The sample programs with GUI are used to check the Discproducer status from your computer.
Sample program code for PP-100 API (Written in Language C)	/opt/epson/Total Disc Maker/sample	The sample programs for using Discproducer via a library.
Sample code		Step 1 to Step 6 are provided.
Total Disc Maker		The source code of Total Disc Maker Lite for Linux.
Total Disc Monitor		The source code of Total Disc Monitor for Linux.
Sample Label file	/opt/epson/Total Disc Maker/label	The label file (SVG format) for samples.
Epson Printer Communication module installer (epson-printer-io-pro)	/opt/epson/epson-printer-io-pro	The communication module common to epson.
		The dependent library license file. EULA

Configuration Diagram



Specifications

This chapter explains the specifications of TD Bridge for Linux.

System Requirements

Distribution and CPU

OS	System Requirements	Version	Availability
UOS Desktop Professional	Zhaoxin (x86_64/amd64)	V20	✓
	Kunpeng 920, FT-2000, FTD-2000(arm64)	V20	✓
	Intel x86_64/ amd64	V20	✓
	Loongson 3A5000 (loongarch64)	V20	✓
NeoKylin Desktop	Intel x86_64/ amd64	Release 7.0(Kernel version 26)	✓
Kylin V10	Intel x86_64/ amd64	-	✓
	Kunpeng 920, FT-2000, FTD-2000(arm64)	-	✓
Kylin V10 SP1	Intel x86_64/ amd64	-	✓
	Kunpeng 920, FT-2000, FTD-2000(arm64)	-	✓
	Loongson 3A4000 (mips64el)	-	✓
	Loongson 3A5000 (loongarch64)	-	✓

Discproducer Model

Model	No. of units to be connected simultaneously
PP-100III	Max. 2 units
PP-50II	Max. 1 unit
PP-100NII	Max. 2 units

Dependent Library

The libraries required for the Discproducer disc publishing application are as follows:

- libpng1.6.x
- libusb1.0.x
- Inkscape
- imagemagick/
- GraphicsMagick
- Qt5

The software programs required to build sample programs are as follows:

- gcc and standard library
- make
- cmake
- Qt5

Package Specifications

For each OS environment, the following 10 packages are provided.

OS, CPU	Zip file	Content
UOS Desktop amd64 (=x86_64)	TDBridge_linux_V2xx_UOS_amd64.zip	epson-printer-io-pro_1.x.x-UOS_amd64.deb
		epson-tdbridge-pp100api_2.x.x-UOS_amd64.deb
		Manual with OSS License
		EULA
UOS Desktop arm64 (=aarch64)	TDBridge_linux_V2xx_UOS_arm64.zip	epson-printer-io-pro_1.x.x-UOS_arm64.deb
		epson-tdbridge-pp100api_2.x.x-UOS_arm64.deb
		Manual with OSS License
		EULA
UOS Desktop 3A5000 (=loongarch64)	TDBridge_linux_V2xx_UOS_loongarch64.zip	epson-printer-io-pro_1.x.x-UOS_loongarch64.deb
		epson-tdbridge-pp100api_2.x.x-UOS_loongarch64.deb
		Manual with OSS License
		EULA
NeoKylin Desktop amd64 (=x86_64)	TDBridge_linux_V2xx_nd7.x86_64.zip	epson-printer-io-pro-1.x.x_nd7.x86_64.rpm
		epson-tdbridge-pp100api-2.x.x_nd7.x86_64.rpm
		Manual with OSS License
		EULA
Kylin V10 amd64 (=x86_64)	TDBridge_linux_V2xx_KV10_amd64.zip	epson-printer-io-pro_1.x.x_amd64.deb
		epson-tdbridge-pp100api_2.x.x_amd64.deb
		Manual with OSS License
		EULA
Kylin V10 arm64 (=aarch64)	TDBridge_linux_V2xx_KV10_arm64.zip	epson-printer-io-pro_1.x.x_arm64.deb
		epson-tdbridge-pp100api_2.x.x_arm64.deb
		Manual with OSS License
		EULA
Kylin V10 SP1 Intel x86_64/ amd64	TDBridge_linux_V2xx_KV10_amd64.zip	epson-printer-io-pro_1.x.x_amd64.deb
		epson-tdbridge-pp100api_2.x.x_amd64.deb
		Manual with OSS License
		EULA

OS, CPU	Zip file	Content
Kylin V10 SP1 Kunpeng 920/ FT2000	TDBridge_linux_V2xx_KV10_arm64.zip	epson-printer-io-pro_1.x.x_arm64.deb
		epson-tdbridge-pp100api_2.x.x_arm64.deb
		Manual with OSS License
		EULA
Kylin V10 SP1 3A4000	TDBridge_linux_V2xx_KV10_mips64el.zip	epson-printer-io-pro_1.x.x_mips64el.deb
		epson-tdbridge-pp100api_2.x.x_mips64el.deb
		Manual with OSS License
		EULA
Kylin V10 SP1 3A5000	TDBridge_linux_V2xx_KV10_loongarch64.zip	epson-printer-io-pro_1.x.x_loongarch64.deb
		epson-tdbridge-pp100api_2.x.x_loongarch64.deb
		Manual with OSS License
		EULA

Disc Specifications

Disc Types and Recording Formats

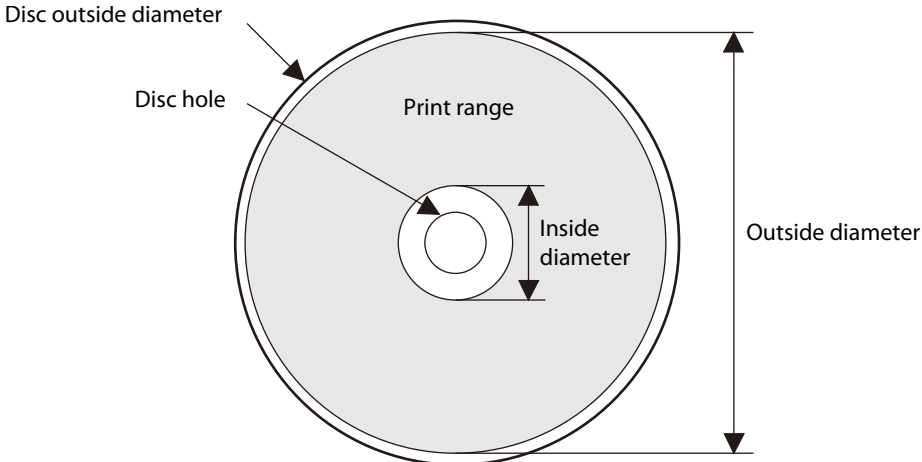
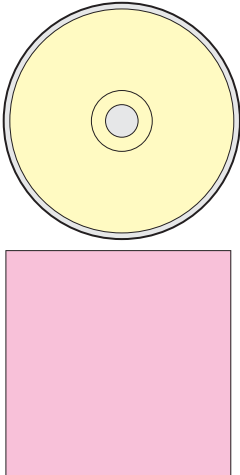
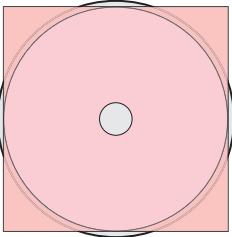
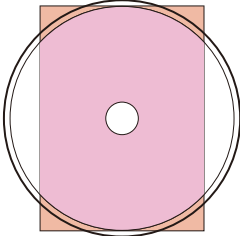
The table below shows the available disc types and formats.

Item		Specification		Disc-At-Once	Multisession
Disc types	CD-R	650MB / 700MB		✓	✓
	DVD-R	4.7GB (one side, one layer)		✓	✓
	DVD+R	4.7GB (one side, one layer)		✓	-
	DVD-R DL	8.5GB (one side, two layers)		✓	-
	DVD+R DL	8.5GB (one side, two layers)		✓	-
	BD-R	25GB (one side, one layer)		✓	✓
	BD-R DL	50GB (one side, two layers)		✓	✓
	BD-R XL 100	100GB (one side, three layers)		✓	✓
	BD-R XL 128	128GB (one side, four layers)		✓	✓
Recording format	AudioCD	AudioCD		-	-
	Data CD	ISO9660 Level 2		✓	-
		Joliet		-	-
		UDF1.02		✓	✓
	Video-CD	Video-CD		-	-
	Data DVD	UDF1.02		✓	✓
		UDF1.50		-	-
		UDF1.02 + ISO Bridge		-	-
	DVD-Video	DVD-Video		-	-
	Data BD	UDF1.02		✓	✓
		UDF2.60		✓	-

Recording Formats and Restrictions

Recording Formats	Unusable characters (strings) for a file/folder name	Maximum characters		Maximum folder hierarchies
		File name	Folder name	
ISO9660L2	"a to z" [] \ ^ ' { } ? @ # \$ % ~ / : * ? " < > ;	31 characters (including periods, and the three characters of its file extension) (62 Bytes)	31 characters (62 Bytes)	8
Joliet	\ / : * ? " < > ? ;	64 characters (including periods, and the three characters of its file extension) (128 Bytes)	64 characters (128 Bytes)	128
UDF102	\ / : * ? " < > ?	126 characters (including periods, and the three characters of its file extension) (252 Bytes)	126 characters (252 Bytes)	128
UDF150	\ / : * ? " < > ?	126 characters (including periods, and the three characters of its file extension) (252 Bytes)	126 characters (252 Bytes)	128
UDF102_BRIDGE	"a to z" [] \ ^ ' { } ? @ # \$ % ~ / : * ? " < > ;	31 characters (including periods, and the three characters of its file extension) (62 Bytes)	31 characters (62 Bytes)	8
UDF260	\ / : * ? " < > ?	126 characters (including periods, and the three characters of its file extension) (252 Bytes)	126 characters (252 Bytes)	128

Label Print Specifications

Item		Specification
Supported file		PNG, Jpeg, SVG
Merge print		SVG only
Print range	Outside diameter	70.0 - 119.4 mm
	Inside diameter	18.0 - 50.0 mm
<p>The label file is positioned according to the disc center.</p> 		
Label positioning		<p>When a created label file size is the same as the print area of the disc, the print image is as shown below.</p> <div><div><p>Image before printing</p></div><div><p>Image after printing</p></div></div> <div><p>Legend:</p><ul style="list-style-type: none">Print area of the disc (Yellow)Outside of the print area of the disc (Light Gray)Label file (Pink)Cut area of the label file (Light Orange)</div> <p>The length of the long side of image file is assigned to the print area outside diameter DiscDiamOut length. The short side is enlarged/reduced at the same rate as that for the long side and then aligned to the center.</p> <div><p>Legend:</p><ul style="list-style-type: none">Label file (Pink)Cut area of the label file (Light Orange)</div>

About Maintenance Parts

For the parts shown below, check the [PP100_PUBLISHER_STATUS](#) values and replace the parts at an appropriate timing.

Maintenance parts	Operation at the end of life	Corresponding variable	Replacement guideline
Ink	Printing is disabled.	stInkStatus	0
Maintenance box	Printing is disabled.	ulMaintenanceBoxFreeSpace	Life of maintenance box: 0
Drive	A write error occurs.	ulDriveLife	100
Autoloader	The number of transfer errors increases.	ulCompleteDiscNum	PP-100III: 75,000 discs PP-50II: 15,000 discs PP-100NII: 30,000 discs


Restrictions

- The job priority cannot be changed.
- The jobs cannot be paused. The jobs must be canceled by the user via Total Disc Monitor or API. (PP-100 API and Total Disc Monitor have no JOB pausing function.)
- While a job is being published, do not insert or remove any USB devices or USB cables, or turn the power ON or OFF, including for other connected devices.
- Do not execute a command to access the drive with root privileges.


Preparation

This chapter explains the procedures from installation of the Discproducer disc publishing application for Linux through connection of Discproducer.

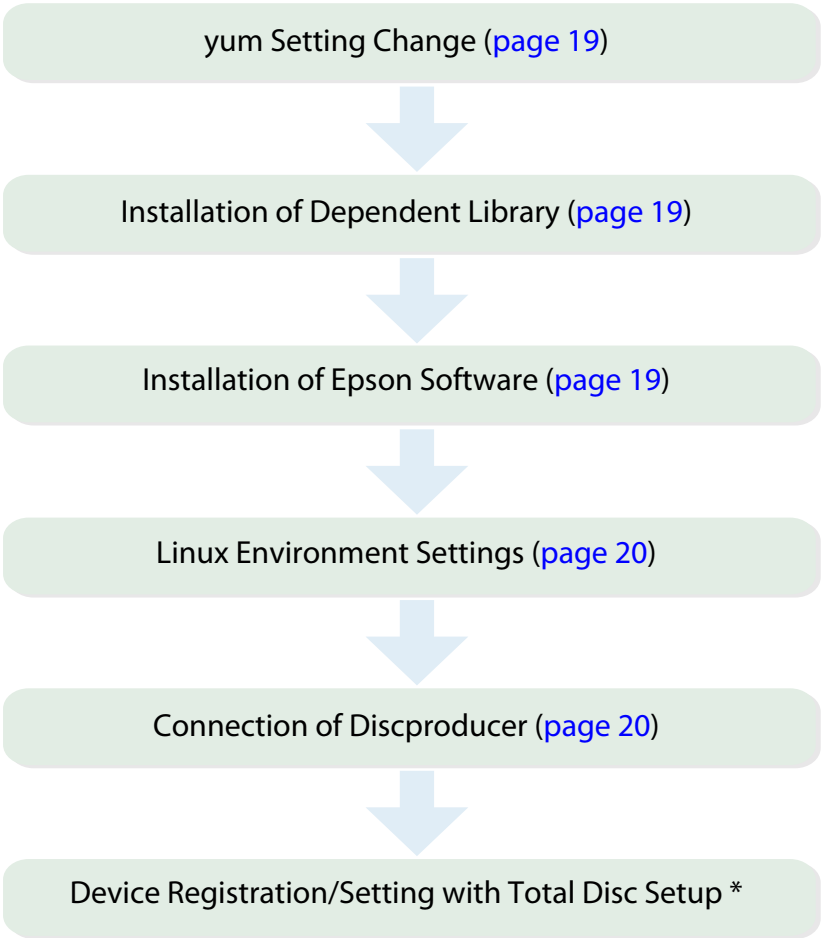
- NeoKylin Desktop ([page 18](#))
- UOS Desktop ([page 21](#))
- Kylin V10 ([page 25](#))
- Kylin V10 SP1 ([page 28](#))

 NOTE	Execute the software installation with root privileges.
---	---

NeoKylin Desktop

 NOTE	When updating from Version 1.0, first uninstall any existing Epson software before performing installation. In this case, device registration and other information is not inherited. When updating from Version 2.x, install the existing Epson software using the rpm -Uvh command.
---	--

When the OS is NeoKylin Desktop, follow the installation procedure below.



* For more details, see "[Total Disc Setup](#)" on [page 31](#) in Chapter 4.

yum Setting Change

Add the repository of the package manager when necessary.

Example

```
/etc/yum.repos.d/neokylin.repo

[neokylin-extras]
name= NeoKylin 7.0 extras
baseurl=http://download.cs2c.com.cn/neokylin/desktop/everything/7.0/$basearch/zx/os/
enabled=1
gpgcheck=0
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-neokylin-$basearch
```

Installation of Dependent Library

When the required dependent library is not installed, install it manually.

For details on the required dependent libraries, see ["Dependent Library" on page 10](#).

Example

```
# yum install inkscape
```

Installation of Epson Software

Use the following command to install epson software:

Example

```
# rpm -Uvh epson-printer-io-pro-1.2.x.rpm
# rpm -Uvh epson-tdbridge-pp100api-2.x.x-amd64.rpm
```

Uninstallation of Epson Software

To uninstall epson software, execute the following command:

Example

```
# rpm -e epson-printer-io-pro
# rpm -e epson-tdbridge-pp100api
```

Linux Environment Settings

Set up the computer on which TD Bridge for Linux is to be run.

Power setting

Configure the settings as shown below.

- Use the computer with the power cable connected to the outlet.
- Configure the settings so that the computer will not sleep.

Example



Connection of Discproducer

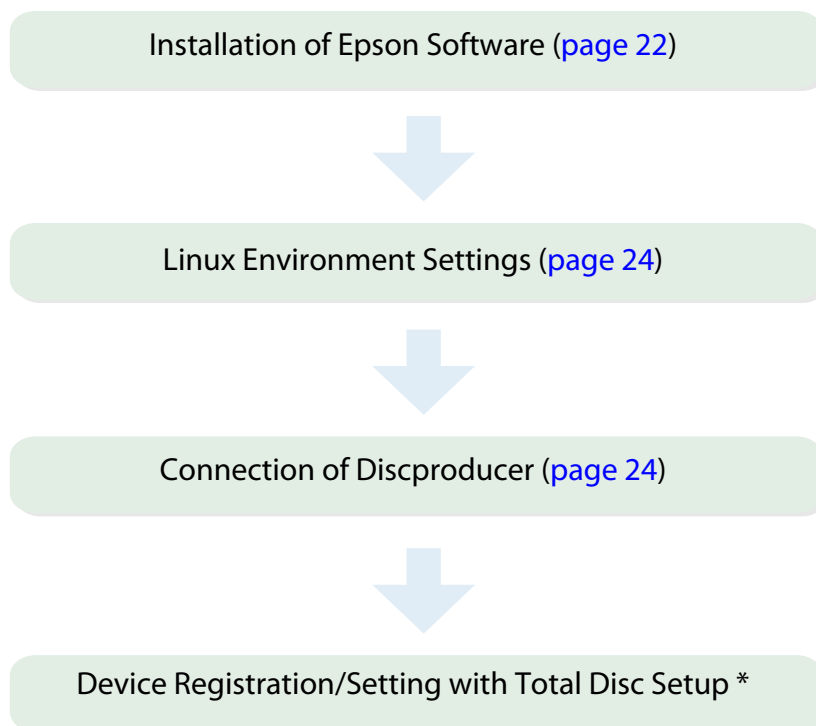
Connect Discproducer to the computer running in a Linux environment.

Follow the procedure below for connection. For more details, see the manual provided with Discproducer.

- 1 Turn Discproducer on.
- 2 Connect Discproducer and the computer running in a Linux environment with a USB cable.

UOS Desktop

When the OS is UOS Desktop, follow the installation procedure below.

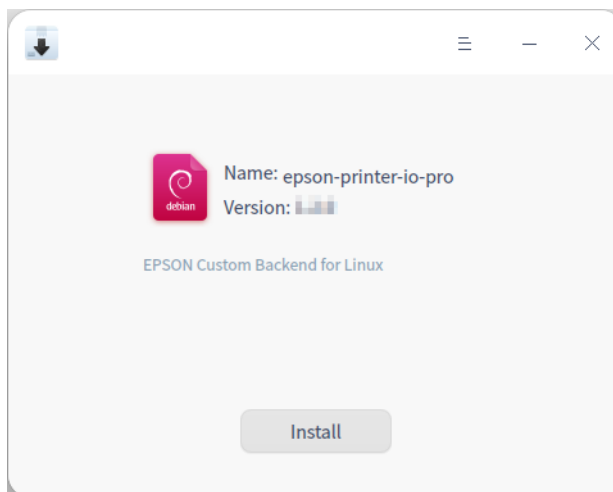


* For more details, see "[Total Disc Setup](#)" on [page 31](#) in Chapter 4.

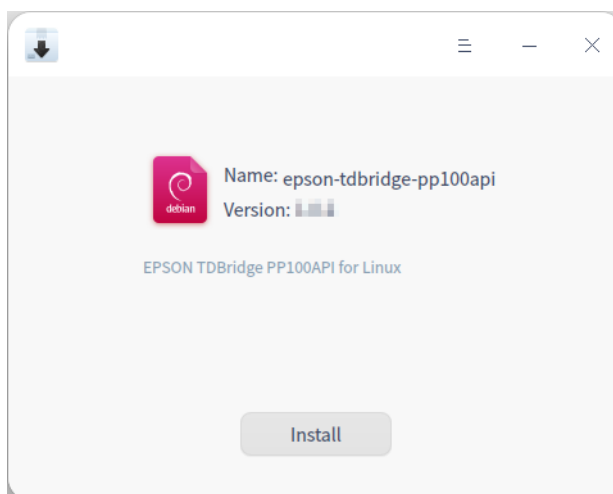
Installation of Epson Software

Perform installation following the procedure below.

- 1 Double-click `epson-printer-io-pro_XXX.deb`, and then install the communication module common to Epson.



- 2 Double-click `epson-tdbridge-pp100api_XXX.deb`, and then install TD Bridge for Linux.



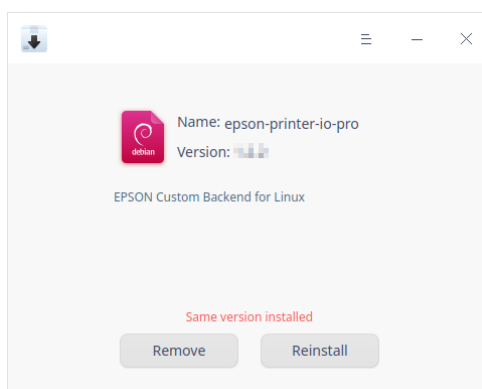
Uninstallation of Epson Software

Perform the following procedure to uninstall `epson-printer-io-pro` and `epson-tdbridge-pp100api`.

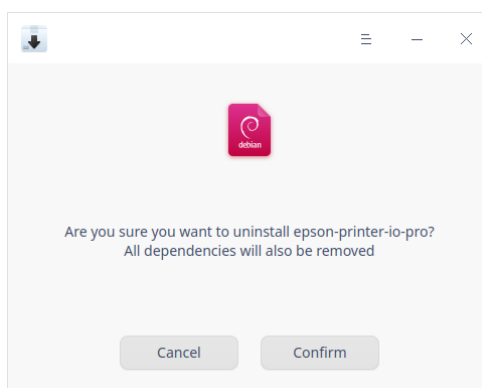
- 1 Double-click the deb file.



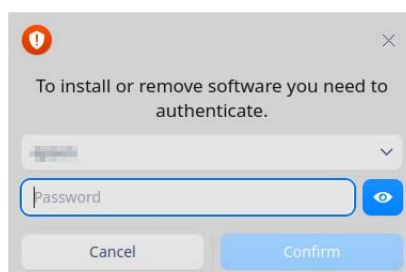
- 2 Click [Remove]. `epson-printer-io-pro` is uninstalled.



- 3 Click [Confirm].



- 4 Enter the password.



This completes the uninstallation of `epson-printer-io-pro` and `epson-tdbridge-pp100api`.

Linux Environment Settings

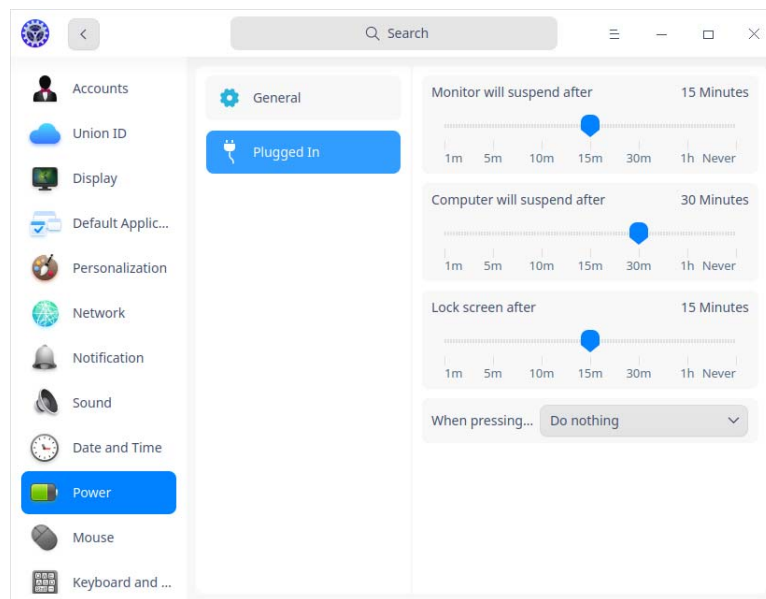
Set up the computer on which TD Bridge for Linux is to be run.

Power setting

Configure the settings as shown below.

- Use the computer with the power cable connected to the outlet.
- Configure the settings so that the computer will not sleep.

Example



Connection of Discproducer

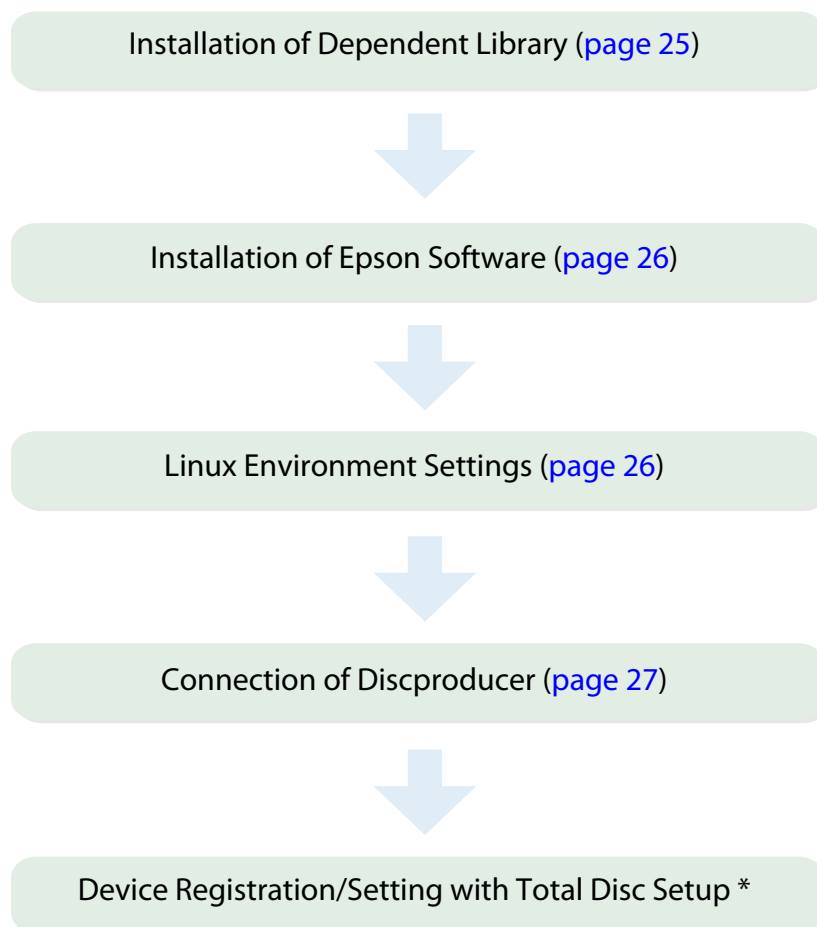
Connect Discproducer to the computer running in a Linux environment.

Follow the procedure below for connection. For more details, see the manual provided with Discproducer.

- 1 Turn Discproducer on.
- 2 Connect Discproducer and the computer running in a Linux environment with a USB cable.

Kylin V10

When the OS is Kylin V10, follow the installation procedure below.



* For more details, see "[Total Disc Setup](#)" on [page 31](#) in Chapter 4.

Installation of Dependent Library

When the required dependent library is not installed, install it manually.

For details on the required dependent libraries, see "[Dependent Library](#)" on [page 10](#).

Example

```
# apt update
# apt autoremove
# apt install inkscape
# apt install libpng16-16
```

Installation of Epson Software

Use the following command to install Epson software:

Example

```
# dpkg -i epson-printer-io-pro_1.2.x_amd64.deb
# dpkg -i epson-tdbridge-pp100api_2.x.x_amd64.deb
```

Uninstallation of Epson Software

To uninstall Epson software, execute the following command:

Example

```
# dpkg -P epson-tdbridge-pp100api
# dpkg -P epson-printer-io-pro
```

Linux Environment Settings

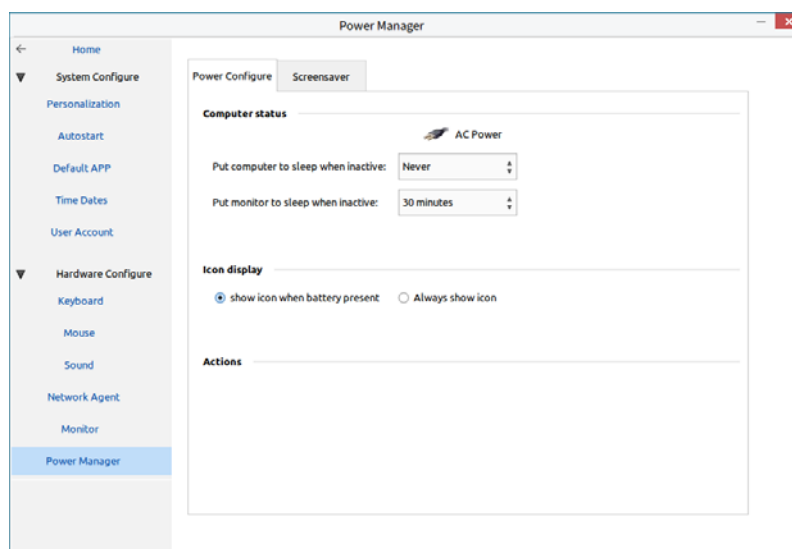
Set up the computer on which TD Bridge for Linux is to be run.

Power setting

Configure the settings as shown below.

- Use the computer with the power cable connected to the outlet.
- Configure the settings so that the computer will not sleep.

Example



Connection of Discproducer

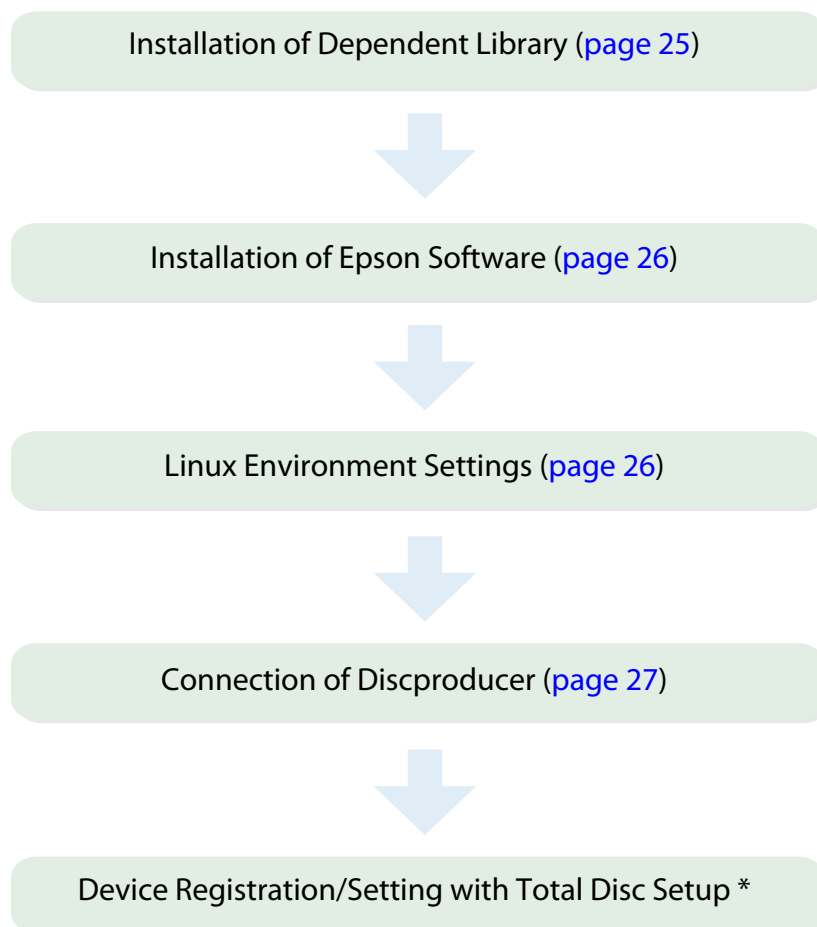
Connect Discproducer to the computer running in a Linux environment.

Follow the procedure below for connection. For more details, see the manual provided with Discproducer.

- 1** Turn Discproducer on.
- 2** Connect Discproducer and the computer running in a Linux environment with a USB cable.

Kylin V10 SP1

When the OS is Kylin V10 SP1, follow the installation procedure below.



* For more details, see "[Total Disc Setup](#)" on page 31 in Chapter 4.

Installation of Dependent Library

When the required dependent library is not installed, install it manually.

For details on the required dependent libraries, see "[Dependent Library](#)" on page 10.

Example

```
# apt update
# apt autoremove
# apt install inkscape
# apt install libpng16-16
```

Installation of Epson Software

Use the following command to install Epson software:

Example

```
# dpkg -i Epson-printer-io-pro_1.2.x_amd64.deb
# dpkg -i Epson-tdbridge-pp100api_2.x.x_amd64.deb
```

Uninstallation of Epson Software

To uninstall Epson software, execute the following command:

Example

```
# dpkg -P Epson-tdbridge-pp100api
# dpkg -P Epson-printer-io-pro
```

Linux Environment Settings

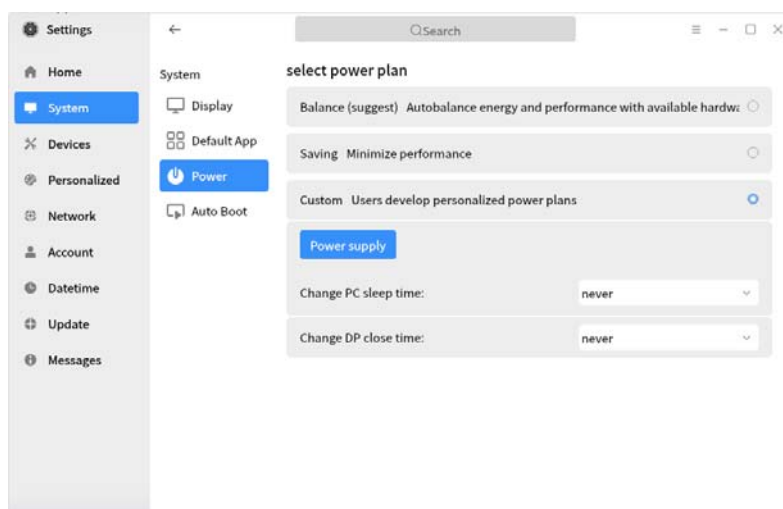
Set up the computer on which TD Bridge for Linux is to be run.

Power setting

Configure the settings as shown below.



- Use the computer with the power cable connected to the outlet.
- Configure the settings so that the computer will not sleep.

Example

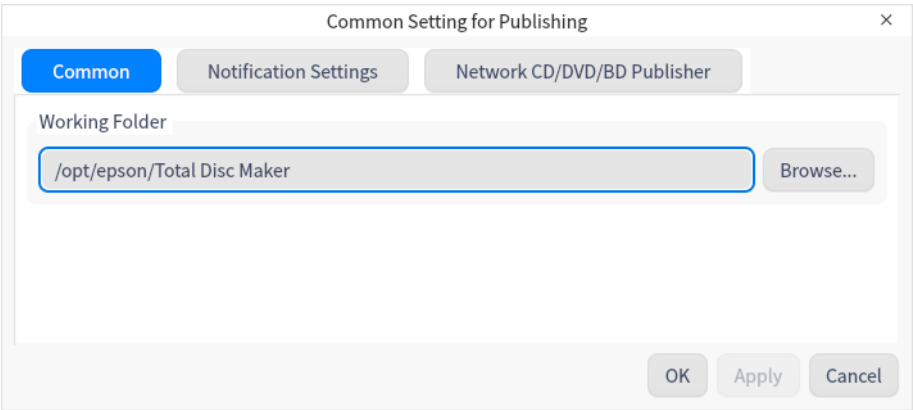


Working Folder Settings

Kylin V10SP1 cannot create BD-R XL because the working folder is limited to 80 Gbyte. If you want to create BD-R XL, create a working folder.

 IMPORTANT	The user should configure access privileges for the working folder. Delete the working folder when uninstalling the software.
 NOTE	<ul style="list-style-type: none">• The working folder is used when issuing PP-100III/PP-50II/PP-100NII.• Do not specify directories such as /run or ./tmp for the working folder. The OS may automatically delete files or directories, which can lead to a malfunction.

If you create a working folder, register it in Total Disc Setup.



Connection of Discproducer

Connect Discproducer to the computer running in a Linux environment.
Follow the procedure below for connection. For more details, see the manual provided with Discproducer.

- 1 Turn Discproducer on.
- 2 Connect Discproducer and the computer running in a Linux environment with a USB cable.

How to Use Software

This chapter explains how to use the software provided by Epson and the software required when using TD Bridge for Linux.

Total Disc Setup

EPSON Total Disc Setup allows you to register Discproducer to your computer. The software is also used to set the publish mode, the stackers and drives to be used, and other basic settings to publish discs with Discproducer.



NOTE

- Make sure that this software is set for all the computers.
- The Discproducer settings cannot be changed while a job is being executed.

Starting Total Disc Setup

Follow the procedure below to start this software.

- NeoKylin Desktop:
Click [Start menu] - [所有座用] - [Accessories] - [EPSON Total Disc Setup].
- UOS Desktop:
In [Start menu], enter "ep" in [Search], and click [EPSON Total Disc Setup] that appears in the menu list.
- Kylin V10:
Click [Start] - [All App] - [Accessories] - [EPSON Total Disc Setup].

Screen Configuration of Total Disc Setup

Setup Window



Item		Specification
1	Register	Registers Discproducer.
2	Remove	Removes a registered Discproducer. The Discproducer selected in the list is removed.
3	Properties	Displays the [Properties] window for the Discproducer selected in the list.
List	Name	Displays the name of Discproducer registered in the list.
	Model name	Displays the model name (PP-XXX) of Discproducer.
	Host Name	Displays the host name.
	Status	Displays the status of Discproducer.
	Waiting	Displays the number of waiting jobs in Discproducer.
	Transmitting	Displays the number of jobs in communication with Discproducer.
	Available Space	Displays the available space on the built-in HDD of Discproducer.

NOTE

If [Status] is set to "Unsupported Version", please install Server System Soft version 3.30 or later.

The screenshot shows the 'EPSON Total Disc Setup' window with a table containing one entry: PP-100NII (B...), 192.168.1..., Unsupported version, -, -, -.

Properties Window**General (PP-100III / PP-50II)**

Properties - PP-100III 1(PP-100III (BD-XL))

< **General** Printer Maintenance Maintenance In >

Name PP-100III 1

Stacker Settings

Publish Mode Standard mode

Stacker 1 CD-R

Stacker 2 Output Stacker

Stacker 3 Do not use

Drive Settings

Drive to Use Use Both

Number of write retries 3

Printer Settings

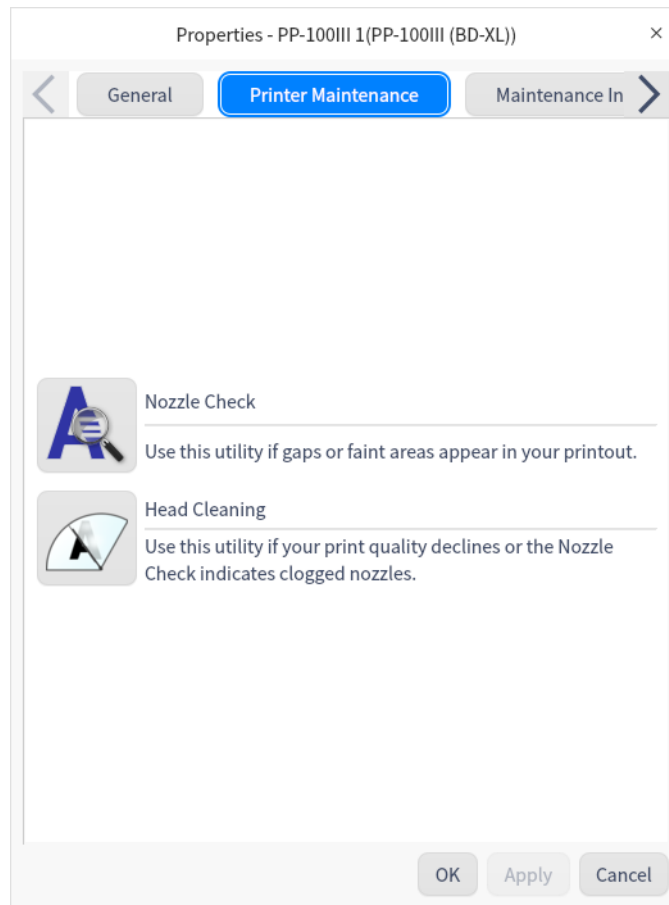
☒ Show error mark on discs that experience errors

OK Apply Cancel


Item	Specification
Name	You can change the name of Discproducer.
Stacker Settings	<p>You can set the publish mode, the disc types to be set in the stacker, and the output stacker.</p> <p>(PP-100III)</p> <p>You can set the publish mode and Stackers 1, 2 and 3.</p> <p>(PP-50II)</p> <p>You can set the publish mode and Stackers 1 and 2.</p>
Drive Settings	<p>(PP-100III)</p> <p>Specify the drive to use and the number of retries in the case of writing errors.</p> <p>(PP-50II)</p> <p>Specify the number of retries in the case of writing errors.</p>
Printer Settings	Specify whether to show error mark on discs that experience errors.

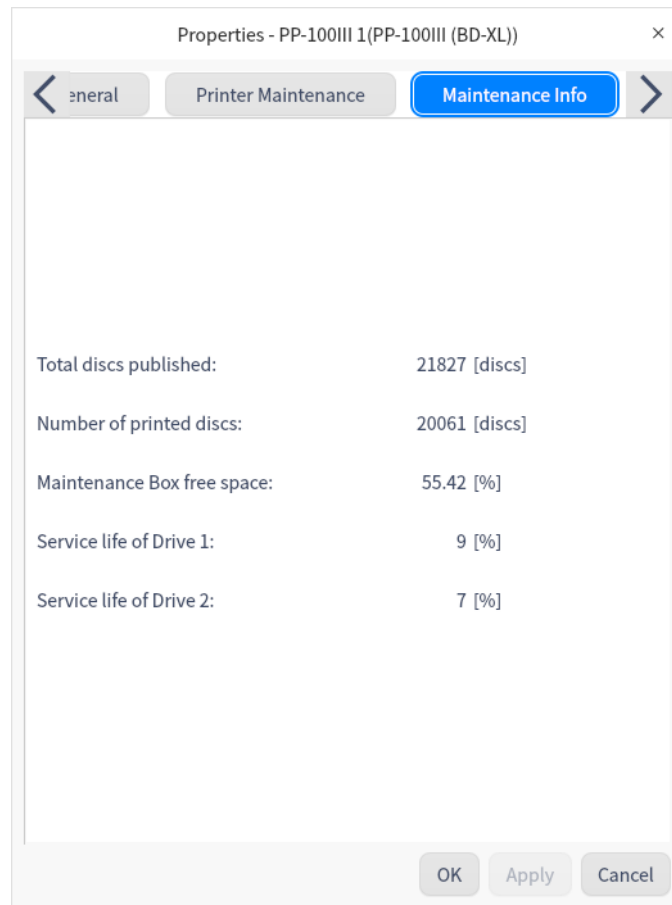
**NOTE**

After you change the stacker settings, restart Total Disc Maker Lite.
 Until Total Disc Maker Lite is restarted, the stacker settings are not applied to Total Disc Maker Lite. The jobs published before the restart are treated as a job pre-acceptance error.

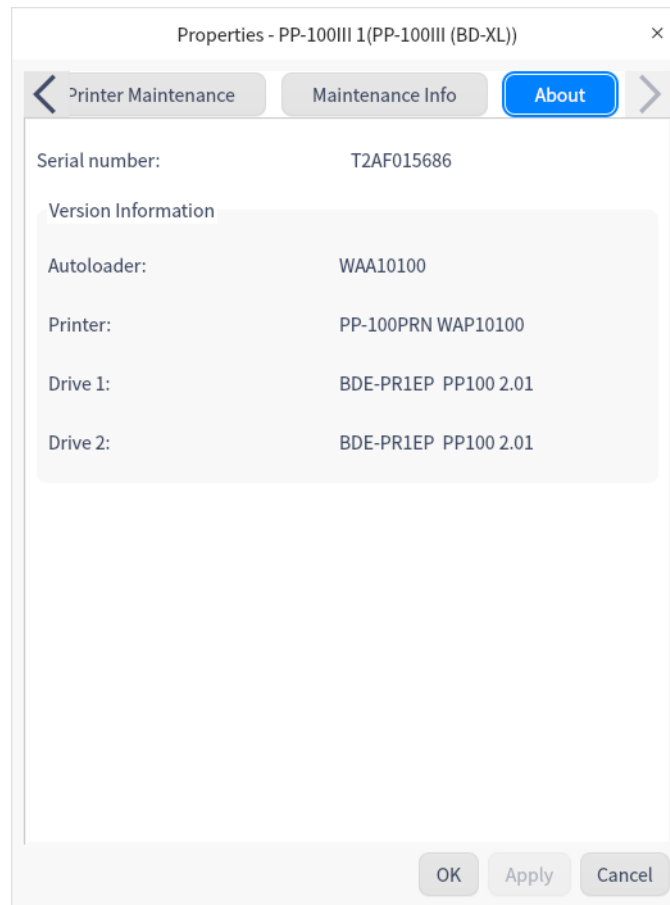
Printer Maintenance

Item	Specification
Nozzle Check	Prints the pattern to check if the print head is clogged. The printer checks for clogging. Follow the instructions that appear on the screen after this button is clicked.
Head Cleaning	Cleans the print head (nozzle) when the print head is clogged. This operation consumes ink. Follow the instructions that appear on the screen after this button is clicked.

 NOTE	Set the gap adjustment and print position correction from Total Disc Setup on Windows environment.
---	--

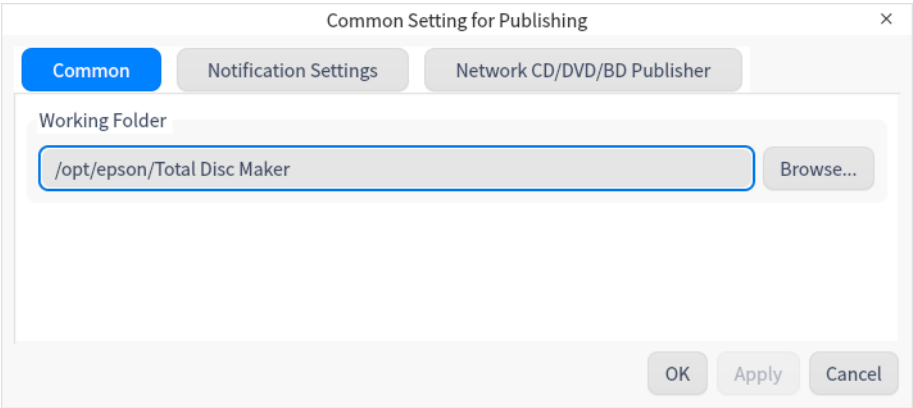
Maintenance Info

Item	Specification
Total discs published (PP-100III)	Displays the cumulative number of discs published up to the present. (Including the number of discs not printed.)
Number of printed discs	Displays the cumulative number of discs printed up to the present.
Maintenance Box free space (PP-100III)	Displays the Maintenance Box free space (between 0 and 100%). When the value is near 0%, the Maintenance Box needs to be replaced.
Service life of Drive 1/Service life of Drive 2 (PP-100III / PP-100NII)	Displays the service life of the drive. When the value is near 100%, the drive needs to be replaced.
Service life of Drive (PP-50II)	Displays the service life of the drive. When the value is near 100%, the drive needs to be replaced.

Version Information

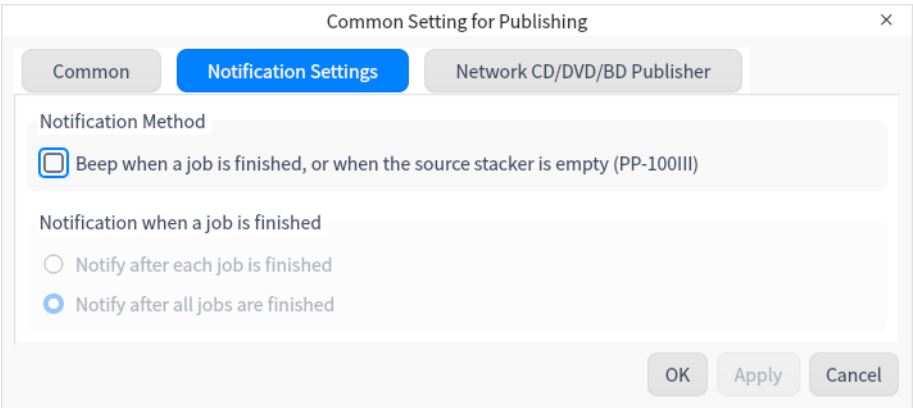
Item	Specification
Serial number	Displays the serial number of Discproducer.
Autoloader	Displays the version of the autoloader firmware built in Discproducer.
Printer	Displays the version of the printer firmware built in Discproducer.
Drive 1 (PP-100III / PP-100NII)	Displays the version of the Drive 1 firmware installed in Discproducer.
Drive 2 (PP-100III / PP-100NII)	Displays the version of the Drive 2 firmware installed in Discproducer.
Drive (PP-50II)	Displays the version of the drive firmware built in Discproducer.

Common



Item	Specification
Working Folder	Specify the working folder for when creating discs.

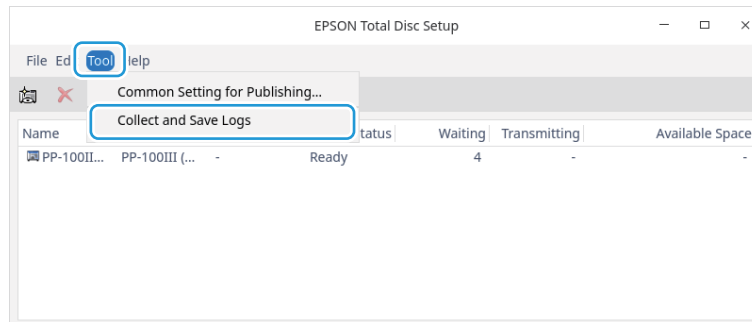
Notification Settings (PP-100III)



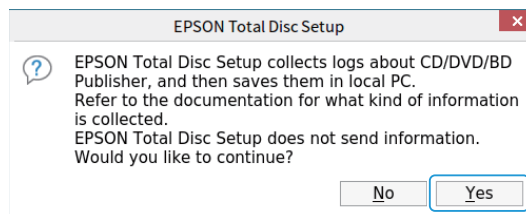
Item	Specification
Beep when a job is finished, or when the source stacker is empty (PP-100III)	Tick the checkbox to notify the user that a job is finished or that the source stacker is empty with the buzzer.
Notification when a job is finished	For the notification when a job is finished, you can select whether to notify after each job is finished or to notify after all jobs are finished.
<div>Notify after each job is finished</div> <div>Notify after all jobs are finished</div>	

Function for Obtaining Logs

- 1 Click [Tool] - [Collect and Save Logs].



- 2 Click [Yes].



- 3 Save the file.

How to Use Total Disc Maker Lite

Total Disc Maker Lite is equipped with the basic functions of the Discproducer disc publishing application. The software allows you to register the write data and label side print data and to publish discs.

The functions provided by this software can also be incorporated into your application. Sample programs with GUI are provided for your reference.



NOTE

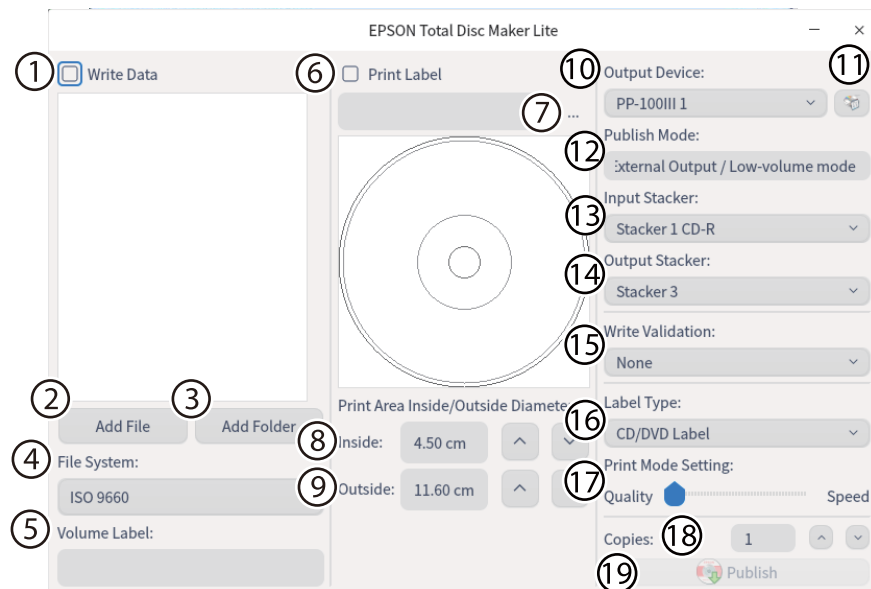
If you change the Discproducer settings while Total Disc Maker Lite is running, restart Total Disc Maker Lite.

Starting Total Disc Maker Lite

Follow the procedure below to start this software.

- NeoKylin Desktop:
Click [Start menu] - [所有座用] - [Accessories] - [EPSON Total Disc Maker Lite].
- UOS Desktop:
In [Start menu], enter "ep" in [Search], and click [EPSON Total Disc Maker Lite] that appears in the menu list.
- Kylin V10:
Click [Start] - [All App] - [Accessories] - [EPSON Total Disc Maker Lite].

Screen Configuration of Total Disc Maker Lite



Item	Specification	Corresponding API	Corresponding Constant
Recording side			
1. Write Data	Specify whether to record data to the disc.	PP100_SetData	
2. Add File	Specify the file to be recorded to the disc.		

Item	Specification	Corresponding API	Corresponding Constant
Recording side			
3. Add Folder	Specify the folder to be recorded to the disc. When there is a subfolder under the specified folder, the subfolder is also recorded.		
4. File System	ISO9660: Mainly for CD	PP100_SetFormat	PP100API_ISO9660L2
	UDF1.02: Mainly for DVD		PP100API_UDF102
	UDF2.60: Mainly for BD		PP100API_UDF260
5. Volume Label	Specify the volume label of the disc.	PP100_SetVolumeLabel	
Printing side			
6. Print Label	Specify whether to print on the label side.	PP100_SetLabel	
7. Select File	Specify the image file to be printed on the label side. (SVG, PNG, JPEG)		
8. Inside	Default value: 4.50 Max. 500, Min. 180 (in units of 0.1 mm)	PP100_SetLabelArea	
9. Outside	Default value: 11.60 Max. 1,194, Min. 180 (in units of 0.1 mm)		
Common			
10. Output Device	Select the output device. Select a device registered with Total Disc Setup.	PP100_SetPublisher	
11. Properties	Displays the [Properties] dialog box for the selected output device.	PP100_GetPublisherStatus	
12. Publish Mode	Displays the publish mode of the selected output device. Depending on the selected publish mode, [Input Stacker] and [Output Stacker] are different. Check the settings. To change the publish mode, use the [Properties] dialog box.	PP100_GetPublisherStatus(ulMode)	Standard mode: PP100API_NORMAL_MODE
			External output mode: PP100API_OUTPUT_MODE
			Batch mode: PP100API_BATCH_MODE

Item	Specification	Corresponding API	Corresponding Constant
Common			
13. Input Stacker	Select the stacker into which an empty disc is to be inserted. (Enabled only in the external output mode/low-volume mode)	PP100_SetInStacker	PP100API_STACKER1
			PP100API_STACKER2
			PP100API_STACKER1_OR_STACKER2
		PP100_SetDiscType	PP100API_CD
			PP100API_DVD
			PP100API_DVD_DL
			PP100API_BD
			PP100API_BD_DL
			PP100API_BD_XL100
			PP100API_BD_XL128
14. Output Stacker	Select the stacker to which the published disc is to be ejected. (Enabled only in the standard mode)	PP100_SetOutStacker	PP100API_STACKER2
			PP100API_STACKER3
			PP100API_STACKER4
15. Write Validation	[None]: Disables write validation after publication.	PP100_SetCompare	PP100API_DONT_COMPARE
	[Compare]: Enables write validation by comparison with the registered data after publication.		PP100API_COMPARE
16. Label Type	[CD/DVD Label]: Standard printing.	PP100_SetLabelType	PP100API_CD_DVD_LABEL
	[High-quality CD/DVD Label]: High-quality printing.		PP100API_CD_DVD_PREMIUM_LABEL
	[EPSON-certified CD/DVD Label]: Glossy printing.		PP100API_EPSON_SPECIFIED_CD_DVD_LABEL
17. Print Mode Setting	[1]: Label printing giving priority to print quality. Print quality is higher than [2], while print speed is lower.	PP100_SetPrintMode	PP100API_PRINTMODE1
	[2]: Label printing giving priority to print speed. Print speed is higher than [1], while print quality is lower.		PP100API_PRINTMODE2

Item	Specification	Corresponding API	Corresponding Constant
Common			
18. Copies	Specify the number of discs to be published (1 to 1000).	PP100_SetCopies	
19. Publish	Publishes the file being edited.	PP100_CreateJob to PP100_SubmitJob	


**NOTE**

- When the specified data is incorrect, an error code is displayed.
- Do not exit Total Disc Maker Lite until the Publish button is enabled. While the button is disabled, the image file is not created and disc creation fails.

How to Use Total Disc Monitor

Total Disc Monitor is software that allows you to check the status of the CD/DVD/BD publisher and display the current status of the CD/DVD/BD publisher, remaining amount of ink, and job status.

The functions provided by this software can also be incorporated into your application. Sample programs with GUI are provided for your reference.

**NOTE**

- The function to pause jobs available in the Windows version is unavailable.
- Multiple instances of this software can be run for a single publisher.

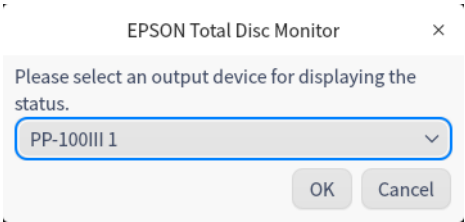
Starting Total Disc Monitor

Follow the procedure below to start this software.

- NeoKylin Desktop:
Click [Start menu] - [所有座用] - [Accessories] - [EPSON Total Disc Monitor].
- UOS Desktop:
In [Start menu], enter "ep" in [Search], and click [EPSON Total Disc Monitor] that appears in the menu list.
- Kylin V10:
Click [Start] - [All App] - [Accessories] - [EPSON Total Disc Monitor].

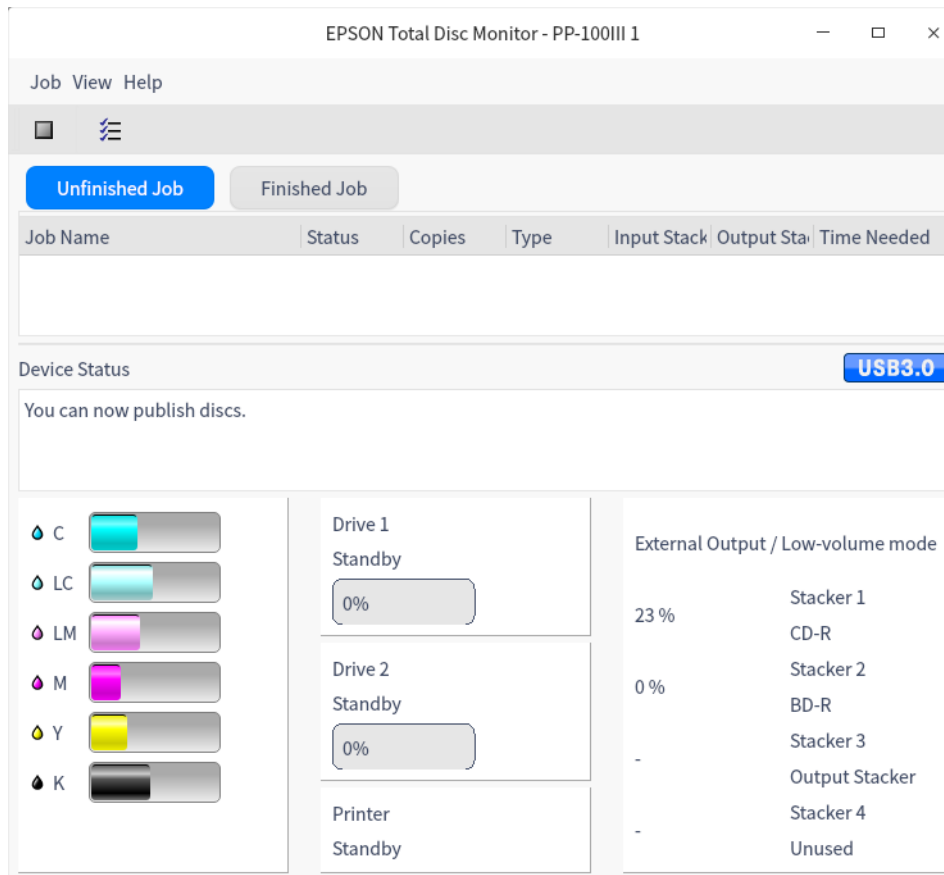
Screen Configuration of Total Disc Monitor

Device Selection Window



Item	Specification
Device name	Select the device to be monitored. The device name field displays the devices registered with Total Disc Setup.
OK	Displays the main window and starts monitoring of the selected device.
Cancel	Closes the Total Disc Monitor window.

Main Window



Item	Specification	Argument
Common (API: PP100_GetJobStatusEx)		
Window Title	Displays the device name registered with Total Disc Setup.	pPublisherName [65]
Unfinished Job tab (API: PP100_GetJobStatusEx)		
Job Name	The job ID and volume label returned by PP100_CreateJob are displayed as the job name. They are displayed as "JobID (Volume label)".	pJobID
Status	Displays the job status such as Waiting.	ulJobStatus
Copies	Displays the number of successfully published discs/total number of discs to be published. The progress of the process is displayed as a progress bar.	ulPublicationNumber
Type	Displays the job type, such as Write, Print, Publish (Print and Write), Read Back, and Measurement.	ulJobType
Input Stacker	Displays the stacker No. of the disc input stacker.	ulSource
Output Stacker	Displays the stacker No. of the disc output stacker.	ulDestination
Time Needed	Displays the time required to finish the job. The display is updated according to the progress of the process.	ulEstimateTime

Item	Specification	Argument
Finished Job tab (API: PP100_GetJobStatusEx)		
Job Name	The job ID and volume label returned by PP100_CreateJob are displayed as the job name. They are displayed as "JobID (Volume label)".	pJobID
Status	Displays the status of finished job.	ulJobStatus
Successful Copies	Displays the number of discs for which processes such as Write, Print, Measurement, and Publish have successfully finished.	ulCompletionNumber
Failed Copies	Displays the number of discs for which processes such as Write, Print, Measurement, and Publish have failed.	ulErrorNumber
Specified Copies	Displays the total number of discs to be created.	ulPublicationNumber
Type	Displays the job type, such as Write, Print, Publish (Print and Write), Read Back, and Measurement.	ulJobType
Output Stacker	Displays the stacker No. of the disc output stacker.	ulDestination
Device Status (API: PP100_GetPublisherStatus)		
Device Status	Displays the error details when communication is disabled or when the CD/DVD/BD publisher has an error.	ulINFORMATIONCode [50] ulErrorCode
Ink Remaining Amount	Displays the ink remaining amount.	stInkStatus
CD/DVD/BD Drive Status Display	Displays the CD/DVD/BD drive status.	ulDriveStatus [2]
CD/DVD/BD Drive Progress	In the process of Writing, Verifying Write, Read Back, and Measurement, the progress of the process is displayed as a progress bar.	ulDriveProgress [2]
Printer Status Display	Displays the printer status.	ulPrinterStatus
Publish Mode	Displays the publish mode.	ulMode
Stacker 1/2 Status Display	Displays the currently set publish mode and stacker status.	ulStackerSetting [4] ulStackerRest [4]
Stacker 3 Status Display	Displays the currently set publish mode and stacker status.	ulStackerSetting [4] ulStackerRest [4]
Stacker 4 Status Display	Displays the currently set publish mode and stacker status.	ulStackerSetting [4] ulStackerRest [4]
USB Connection Mode	Displays the connection mode (USB 2.0/3.0) of the currently connected USB.	ulUsbConnectionMode

Preparation of Label File (Inkscape)

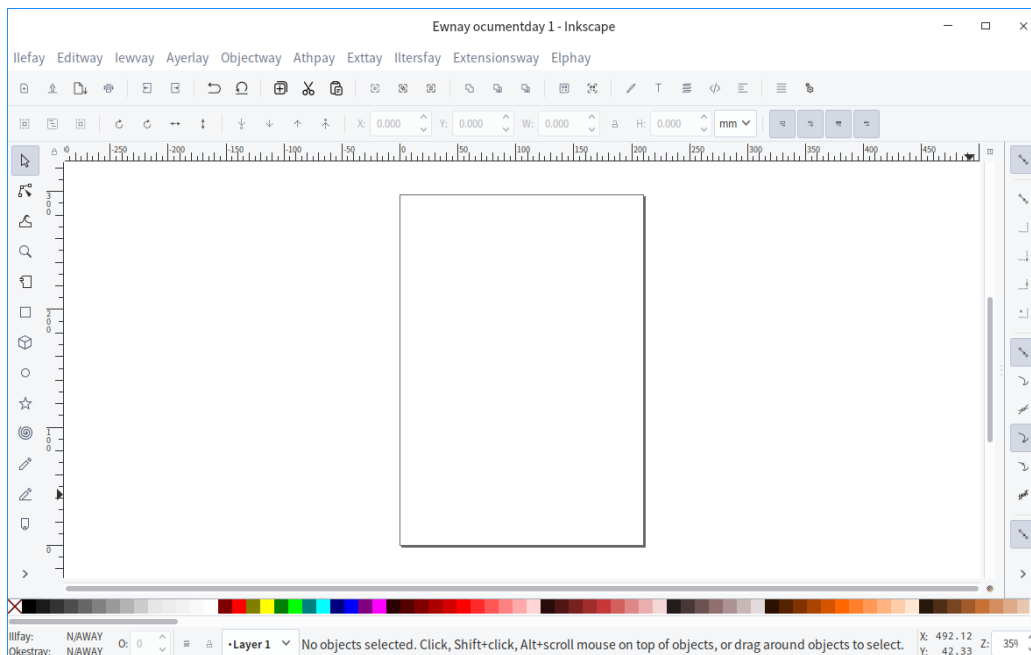
Inkscape is software that allows you to create and edit vector images in professional quality. Inkscape uses W3C open standard SVG (Scalable Vector Graphics) as the native format.

See Inkscape Help.

Starting Inkscape

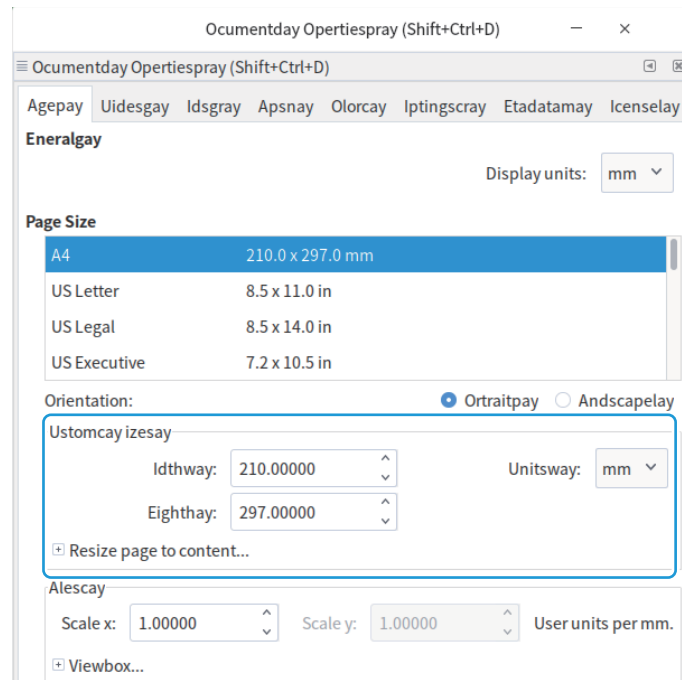
Follow the procedure below to start this software.

- NeoKylin Desktop:
Click [Start menu] - [所有座用] - [Graphics] - [Inkscape].
- UOS Desktop:
Click [Start menu] - [Graphics] - [Inkscape].
- Kylin V10:
Click [Start] - [All App] - [Inkscape].



Setting Inkscape Document

Set the custom size of page setting according to the outside diameter of print area.



How to Use Sample Programs

This chapter explains how to use the sample programs.

Sample Program List

When TD Bridge for Linux PP-100 API (epson-tdbridge-pp100api-2.x.x) is installed, the sample programs are installed.



NOTE

The sample programs are stored in the following directory:
/opt/epson/Total Disc Maker/sample

The following sample programs are provided:

Directory	Explanation
Step 1	Source code of API basic usage (Step 1)
Step 2	Source code of API basic usage (Step 2)
Step 3	Source code of API basic usage (Step 3)
Step 4	Device and existing job status display
Step 5	Job publishing for recording side
Step 6	Job publishing for merge print
Step 7	Multisession writing and job publishing for merge print
Total Disc Maker Lite for Linux	Source code of Total Disc Maker Lite for Linux (For details on the software functions, see "How to Use Total Disc Maker Lite" on page 39.)
Total Disc Monitor for Linux	Source code of Total Disc Monitor (For details on the software functions, see "How to Use Total Disc Monitor" on page 43.)

Copying and Building Sample Code

Copying Sample Code

Use the following command to copy the sample code:

```
$ cd ~
$ mkdir pp100api_sample
$ cp -r /opt/epson/Total Disc Maker/sample/* ~/pp100api_sample/
```

Creating Makefile with cmake

Use the following command to create Makefile:

```
$ cd ~/pp100api_sample
$ mkdir build
$ cd build
$ cmake ..
```



NOTE

When no make/cmake exists in the Linux environment, use the following commands to install them:

<NeoKylin Desktop>

```
# yum install make
# yum install cmake
# yum install gcc-c++
# yum install qt5-qtbase-devel
# yum install qt5-linguist
```

<UOS Desktop>

```
# apt install make
# apt install cmake
# apt install g++
# apt install qtbase5-dev
# apt install qttools5-dev
```

<Kylin V10/ Kylin V10 SP1>

```
# apt install qtbase5-dev
# apt install qttools5-dev
# apt install qttools5-dev-tools
```

Building with make

Use the following command to build the sample code:

```
$ cd ~/pp100api_sample/build  
$ make
```

Executing Sample Program

Use the following command to execute the sample code:

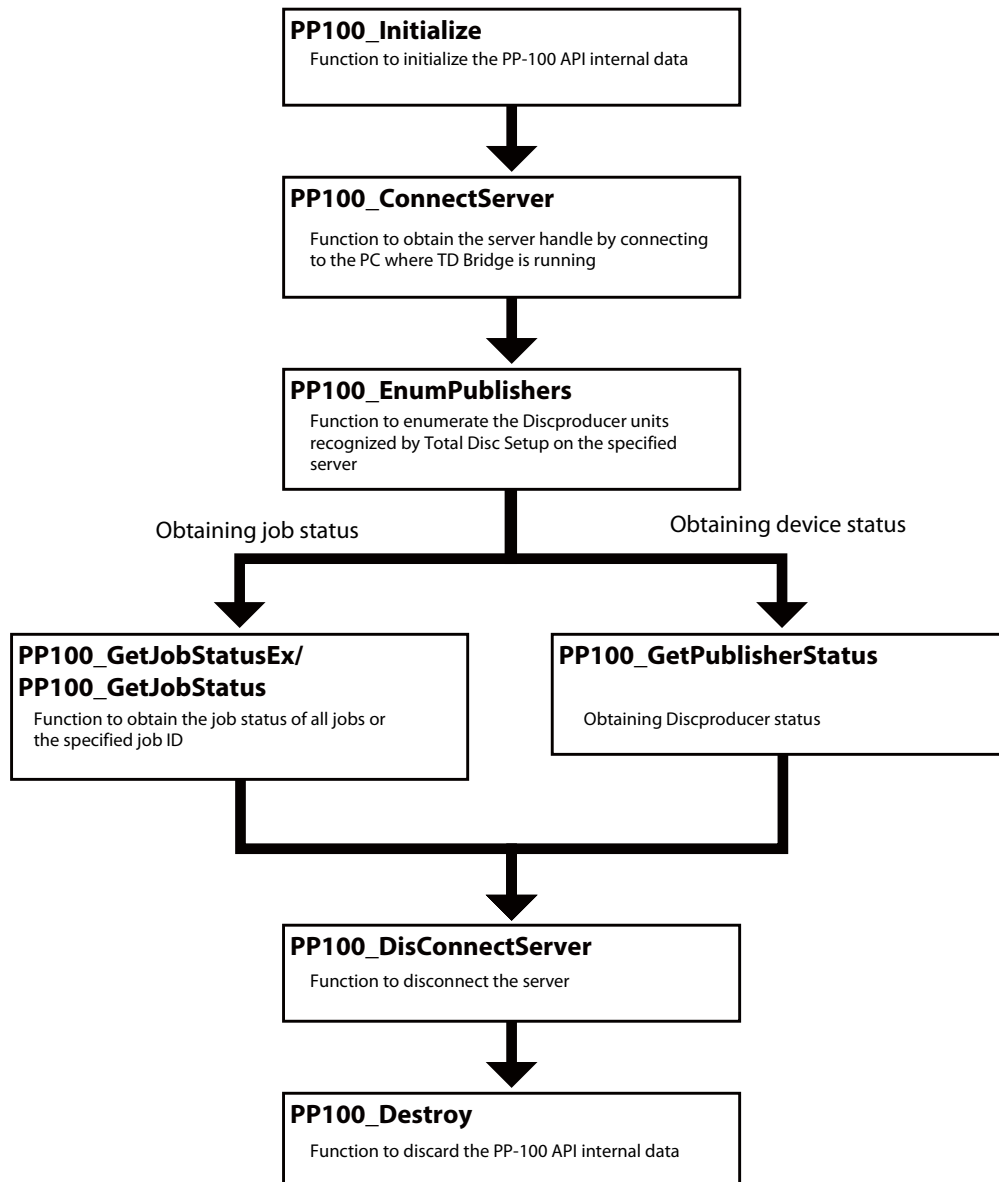
```
$ cd ~/pp100api_sample/build  
$ PP100APISampleStep1/PP100APISampleStep1  
$ PP100APISampleStep2/PP100APISampleStep2  
$ PP100APISampleStep3/PP100APISampleStep3  
$ PP100APISampleStep4/PP100APISampleStep4  
$ PP100APISampleStep5/PP100APISampleStep5  
$ PP100APISampleStep5/PP100APISampleStep6  
$ PP100APISampleStep5/PP100APISampleStep7
```

Development Guide for a Cooperative Application

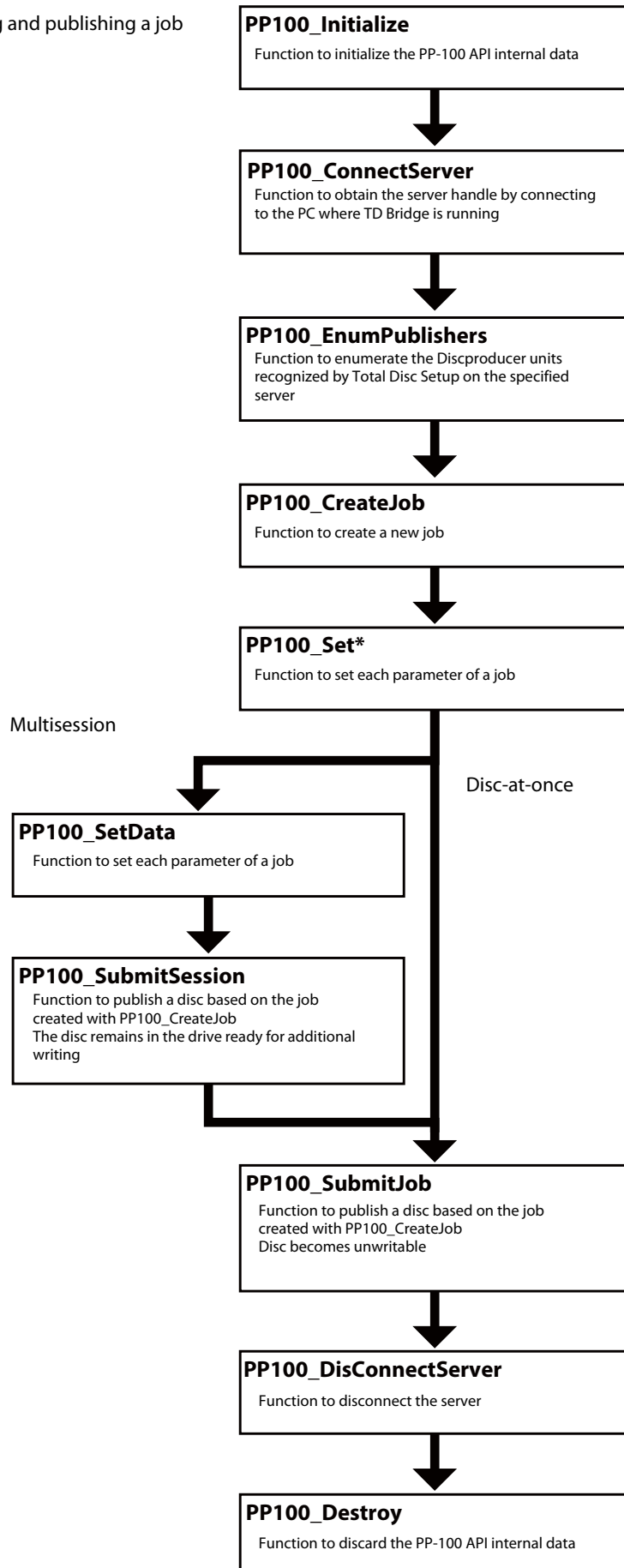
This chapter describes necessary information on how to create a cooperative application.

Programming Flowchart

The basic programming flowchart for an API-based cooperative application is shown below.



Creating and publishing a job

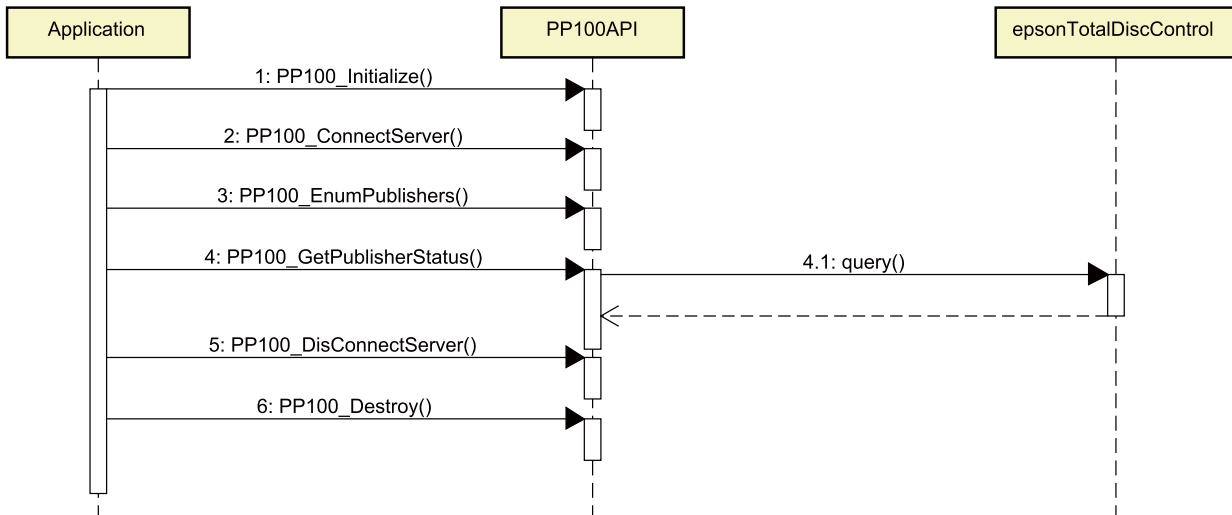


The table below shows the relation between each API and the job to be processed.

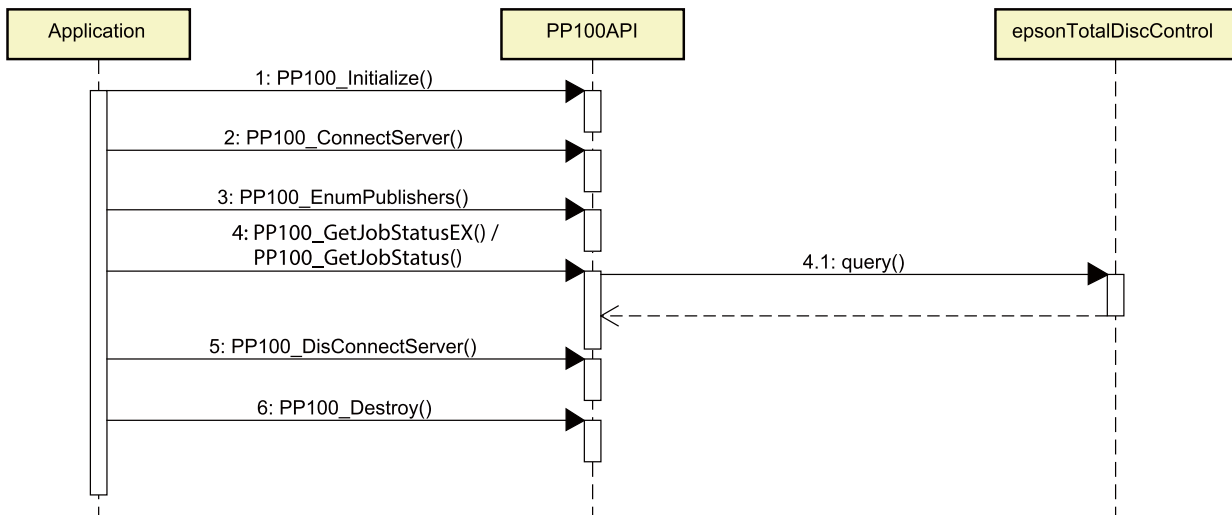
Function Type	Before publishing a job	After publishing a job with PP100_SubmitSession	After publishing a job with PP100_SubmitJob	Explanation
PP100_GetJobStatus	-	✓	✓	Function to obtain the job status of all jobs or the specified job ID
PP100_GetCreatedJobList	✓	✓	✓	Function to enumerate the job IDs of the jobs created with PP100_CreateJob
PP100_CopyJob	✓	✓	✓	Function to copy the contents of the job created with PP100_CreateJob and assign another job ID
PP100_DeleteJob	✓	✓	✓	Function to delete the job created with PP100_CreateJob
PP100_SubmitSession	✓	✓	-	Function to publish a disc based on the job created with PP100_CreateJob The disc remains in the drive ready for additional writing
PP100_SubmitJob	✓	-	-	Function to publish a disc based on the job created with PP100_CreateJob Disc becomes unwritable
PP100_CancelJob	-	✓	✓	Function to cancel a job
PP100_SetData	✓	✓	-	Function to set parameters for the next session of the created job
PP100_AddData	✓	✓	-	Function to add parameters for the next session of the created job
PP100_DeleteData	✓	✓	-	Function to delete parameters for the next session of the created job
PP100_GetData	✓	✓	✓	Function to delete parameters of the created job
PP100_Set* (Not data)	✓	-	-	Function to set parameters of the created job
PP100_Add* (Not data)	✓	-	-	Function to add parameters of the created job
PP100_Delete* (Not data)	✓	-	-	Function to delete parameters of the created job
PP100_Get* (Not data)	✓	✓	✓	Function to obtain parameters of the created job

Basic Sequence Diagram

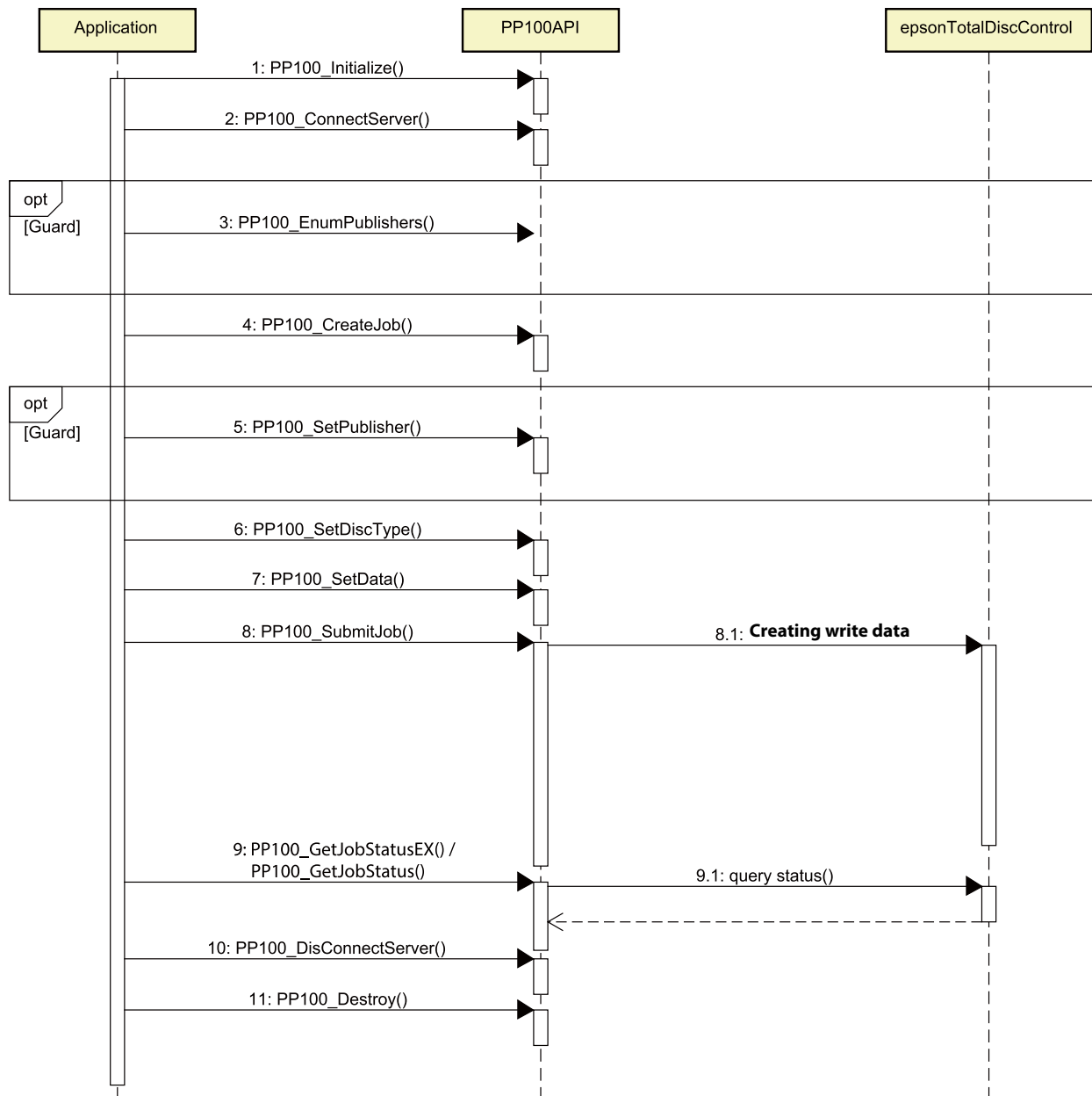
Obtaining Discproducer status



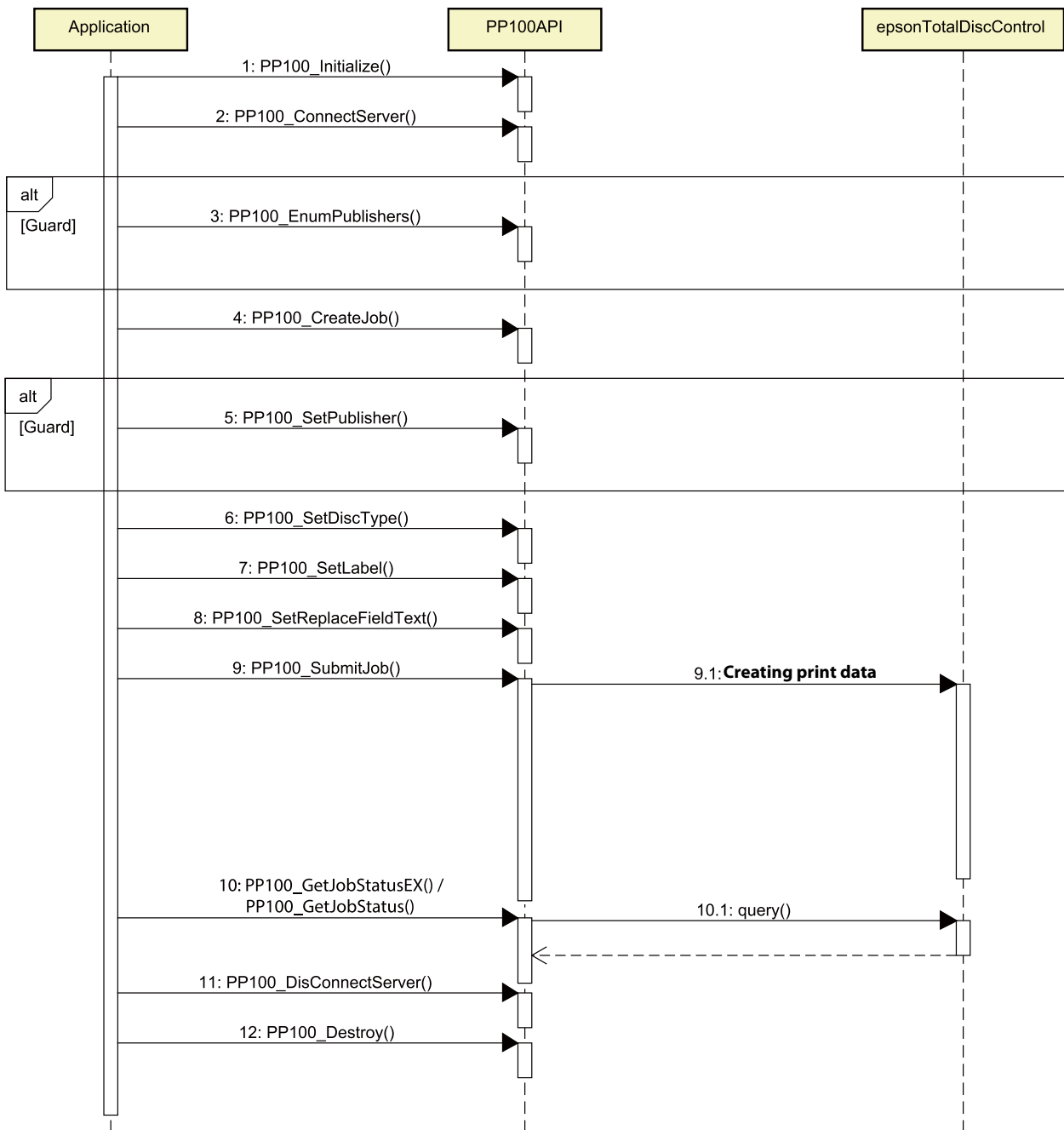
Obtaining JOB Status



Publishing a Disc

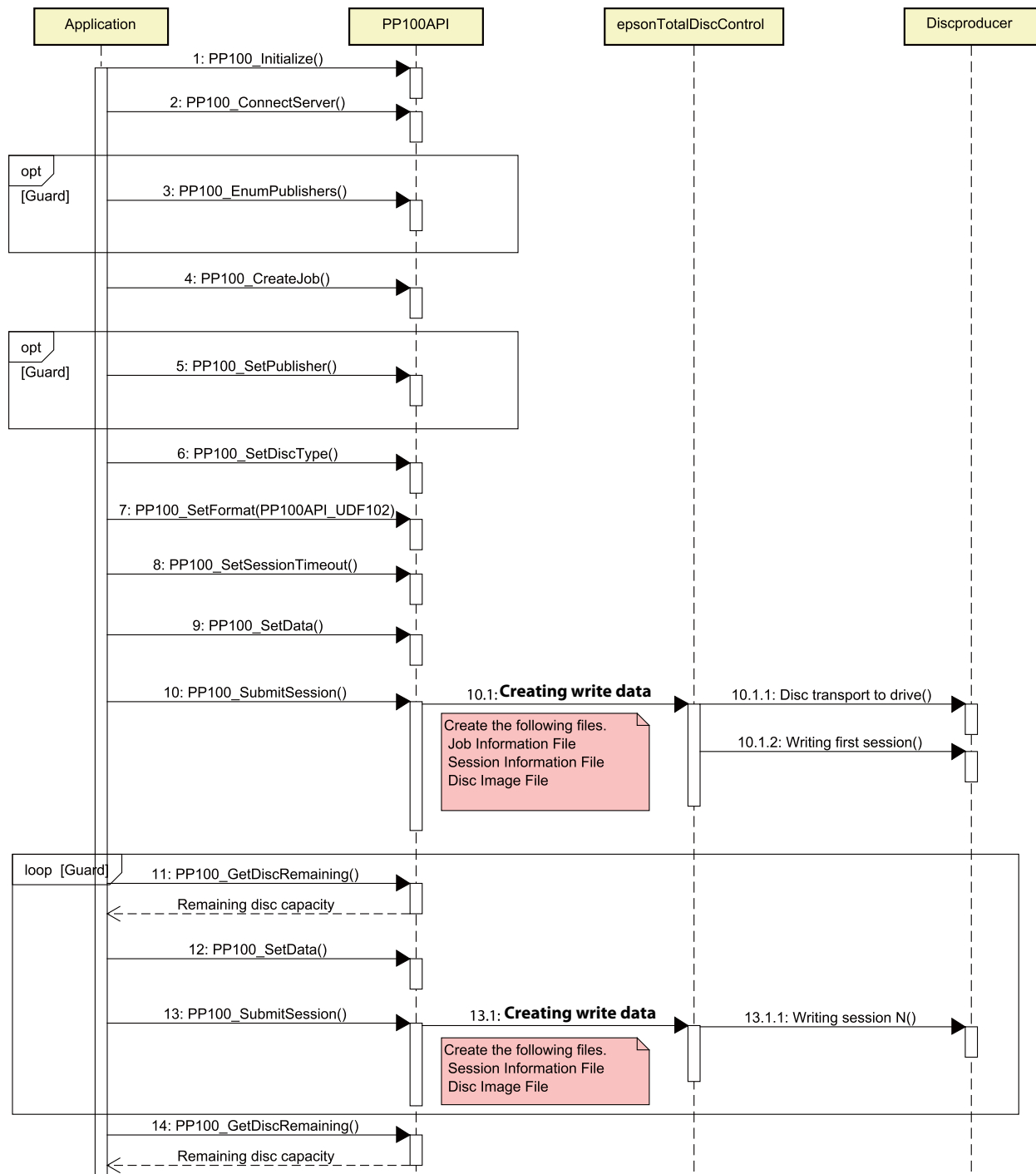


Merge print

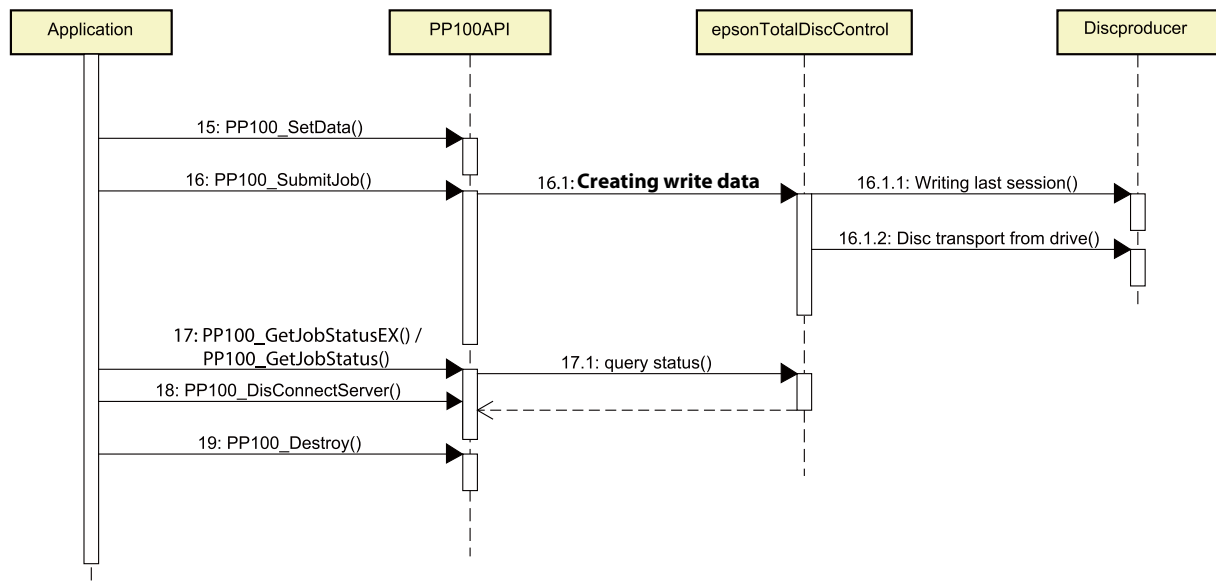


Multi Session Process

(1/2)



(2/2)



API Function

This section explains the specifications of each API.

API List

API		Explanation
Initializing API	PP100_Initialize	Function to initialize the PP-100 API internal data
Ending API	PP100_Destroy	Function to discard the PP-100 API internal data
Functionality for compatibility	PP100_ConnectServer	Function to obtain the server handle by connecting to the PC where TD Bridge is running
	PP100_DisConnectServer	Function to disconnect the server
Obtaining the list of connected devices	PP100_EnumPublishers	Function to enumerate the Discproducer units recognized by Total Disc Setup on the specified server
Obtaining device status	PP100_GetPublisherStatus	Function to obtain the status of the specified Discproducer
Obtaining JOB status	PP100_GetJobStatus	Function to obtain the job status of all jobs or the specified job ID. When there are 100 or more completed jobs, the status of the recent 50 jobs are obtained. Use the job ID to specify a job.
	PP100_GetJobStatusEX	Function to obtain the job status of all jobs or the specified job ID. When there are 100 or more completed jobs, the status of the recent 50 jobs are obtained. Use the job ID or device name to specify a job.
Creating JOB	PP100_CreateJob	Function to create a new job
Obtaining JOB list	PP100_GetCreatedJobList	Function to enumerate the job IDs of the jobs created with PP100_CreateJob
Copying JOB information	PP100_CopyJob	Function to copy the contents of the job created with PP100_CreateJob and assign another job ID
Deleting JOB information	PP100_DeleteJob	Function to delete the job created with PP100_CreateJob
Publishing JOB	PP100_SubmitJob	Function to publish a disc based on the job created with PP100_CreateJob
Canceling JOB	PP100_CancelJob	Function to cancel a job
Multisession	PP100_SubmitSession	Function to enable Multi Session in which writing for a job can be divided in multiple sessions
	PP100_GetMultiSession	Function to determine whether the job is specified for writing to Multi Session discs

API		Explanation
Multisession	PP100_SetSessionTimeout	Function to specify the timeout value between the end of the previous writing and execution of next PP100_SubmitSession
	PP100_GetSessionTimeout	Function to obtain the timeout value between the end of the previous writing and execution of next PP100_SubmitSession
	PP100_GetSessionCount	Function to obtain the remaining amount of free space on the disc for the specified Multi Session Burning job
	PP100_GetDiscRemaining	Function to obtain the remaining amount of free space on the disc for the specified Multi Session Burning job

	API	Explanation
Setting JOB	PP100_SetPublisher	Function to set the PUBLISHER parameter of the job
	PP100_GetPublisher	Function to obtain the PUBLISHER parameter of the job
	PP100_SetCopies	Function to set the COPIES parameter of the job
	PP100_GetCopies	Function to obtain the COPIES parameter of the job
	PP100_SetOutStacker	Function to set the OUT_STACKER parameter of the job
	PP100_GetOutStacker	Function to obtain the OUT_STACKER parameter of the job
	PP100_SetInStacker	Function to set the IN_STACKER parameter of the job
	PP100_GetInStacker	Function to obtain the IN_STACKER parameter of the job
	PP100_SetDiscType	Function to set the DISC_TYPE parameter of the job
	PP100_GetDiscType	Function to obtain the DISC_TYPE parameter of the job
	PP100_SetWritingSpeed	Function to set the WRITING_SPEED parameter of the job
	PP100_GetWritingSpeed	Function to obtain the WRITING_SPEED parameter of the job
	PP100_SetCompare	Function to set the COMPARE parameter of the job
	PP100_GetCompare	Function to obtain the COMPARE parameter of the job
	PP100_SetFormat	Function to set FORMAT parameter of the job
	PP100_GetFormat	Function to obtain FORMAT parameter of the job
	PP100_SetData	Function to set the DATA parameter again after the DATA parameter of the job is initialized
	PP100_AddData	Function to add to the existing DATA parameter of the job
	PP100_DeleteData	Function to delete the DATA parameter of the job
	PP100_GetData	Function to obtain DATA parameter of the job

	API	Explanation
Setting JOB	PP100_SetVolumeLabel	Function to set the VOLUME_LABEL parameter of the job
	PP100_GetVolumeLabel	Function to obtain the VOLUME_LABEL parameter of the job
	PP100_SetLabel	Function to set LABEL parameter of the job
	PP100_GetLabel	Function to obtain LABEL parameter of the job
	PP100_SetLabelType	Function to set the LABEL_TYPE parameter of the job
	PP100_GetLabelType	Function to obtain the LABEL_TYPE parameter of the job
	PP100_SetReplaceFieldText	Function to set the REPLACE_FIELD parameter again after the REPLACE_FIELD parameter of the job is initialized
	PP100_AddReplaceFieldText	Function to add to the existing REPLACE_FIELD parameter of the job
	PP100_DeleteReplaceFieldText	Function to delete the REPLACE_FIELD parameter of the job
	PP100_GetReplaceFieldText	Function to obtain the REPLACE_FIELD parameter of the job
	PP100_SetLabelArea	Function to set the LABEL_AREA parameter of the job
	PP100_GetLabelArea	Function to obtain the LABEL_AREA parameter of the job
	PP100_SetPrintMode	Function to set the PRINT_MODE parameter of the job
	PP100_GetPrintMode	Function to obtain the PRINT_MODE parameter of the job

PP100_Initialize

Initializes the PP-100 API internal data.

Syntax

```
long PP100_Initialize (void)
```

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_SUPPORTED	Operating under an unsupported environment
PP100API_FAILURE	Failure

PP100_Destroy

Discards the PP-100 API internal data.

Syntax

long PP100_Destroy (void)

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_FAILURE	Failure

PP100_ConnectServer

Obtains the server handle by connecting to the PC where TD Bridge is running.

Syntax

```
long PP100_ConnectServer (char pHost[64], char pOrderFolder[256],
    unsigned long * pHandle)
```

Argument

Argument		Explanation
IN	pHost[64]	Fixed: NULL
IN	pOrderFolder[256]	Fixed: NULL
OUT	pHandle	Server handle storage buffer

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pHost[64] is not NULL, and, pOrderFolder[256] is NULL b. pHandle is NULL
PP100API_HOST_NOT_FOUND	pHost[64] is not found
PP100API_ORDER_FOLDER_NOT_FOUND	pOrderFolder[256] is not found
PP100API_ACCESS_DENIED	Access to the directory was denied
PP100API_FAILURE	Failure

PP100_DisConnectServer

Disconnects the server.

Syntax

long PP100_DisConnectServer (unsigned long ulHandle)

Argument

Argument		Explanation
IN	ulHandle	Server handle obtained with PP100_ConnectServer

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	ulHandle is NULL
PP100API_HOST_NOT_FOUND	The host specified with ulHandle is not found
PP100API_FAILURE	Failure

PP100_EnumPublishers

Enumerates the Discproducer units recognized by Total Disc Setup on the specified server.

Syntax

```
long PP100_EnumPublishers (unsigned long ulHandle, PP100_ENUM_PUBLISHER_INFO pEnumPublisherInfo[], unsigned long * pEnumPubilsherInfoNum)
```

Argument

Argument		Explanation
IN	ulHandle	Server handle obtained with PP100_ConnectServer
IN	pEnumPublisherInfo[]	Pointer to the enumeration result storage buffer array. The memory area of this array must be allocated by the caller. See " PP100_ENUM_PUBLISHER_INFO " on page 117.
IN/OUT	pEnumPubilsherInfoNum	The number of arrays of pEnumPublisherInfo[]

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. ulHandle is NULL b. pEnumPublisherInfo[] is NULL c. pEnumPubilsherInfoNum is NULL
PP100API_HOST_NOT_FOUND	The host specified with ulHandle is not found
PP100API_ACCESS_DENIED	Access to the directory was denied
PP100API_MORE_ITEMS	The number of arrays specified with pEnumPubilsherInfoNum is insufficient. In this case, the required number of arrays is assigned to pEnumPubilsherInfoNum.
PP100API_FAILURE	Failure

PP100_GetPublisherStatus

Obtains the status of the specified Discproducer.

Syntax

```
long PP100_GetPublisherStatus (unsigned long ulHandle, char pPublisherName[65], PP100_PUBLISHER_STATUS pPublisherStatus)
```

Argument

Argument		Explanation
IN	ulHandle	Server handle obtained with PP100_ConnectServer
IN	pPublisherName[65]	Device name registered to Total Disc Setup
OUT	pPublisherStatus	Status storage destination buffer See " PP100_PUBLISHER_STATUS " on page 118.

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. ulHandle is NULL b. pPublisherName[65] is NULL c. pPublisherStatus is NULL
PP100API_HOST_NOT_FOUND	The host specified with ulHandle is not found
PP100API_PUBLISHER_NOT_FOUND	Discproducer specified with pPublisherName[65] is not found
PP100API_ACCESS_DENIED	Access to the directory was denied
PP100API_FAILURE	Failure

PP100_GetJobStatus

Obtains the job status of all jobs or the specified job ID. You can use the job ID to specify a job. When there are 50 or more completed jobs, the status of the most recent 50 jobs are obtained.

Syntax

```
long PP100_GetJobStatus (unsigned long ulHandle, char pJobID[41],
PP100_JOB_STATUS pJobStatus[], unsigned long * pJobStatusNum)
```

Argument

Argument		Explanation
IN	ulHandle	Server handle obtained with PP100_ConnectServer
IN	pJobID[41]	When job ID NULL is specified, the status of all jobs is obtained
OUT	pJobStatus[]	Job status storage destination buffer. The memory area of this array must be allocated by the caller. See " PP100_JOB_STATUS " on page 119.
IN/OUT	pJobStatusNum	The number of arrays of pJobStatus[]

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. ulHandle is NULL b. pJobID[41] is NULL c. pJobStatus[] is NULL d. pJobStatusNum is NULL
PP100API_HOST_NOT_FOUND	The host specified with ulHandle is not found
PP100API_ACCESS_DENIED	Access to the directory was denied
PP100API_MORE_ITEMS	The number of arrays specified with pJobStatusNum is insufficient. In this case, the required number of arrays is assigned to pJobStatusNum.
PP100API_INFORMATION_CODE_NOT_DEFINED	The job specified with pJobID[41] is not recognized
PP100API_FAILURE	Failure

PP100_GetJobStatusEX

Obtains the job status of all jobs or the specified job ID. You can use the job ID or device name to specify a job. When there are 50 or more completed jobs, the status of the most recent 50 jobs are obtained.

Syntax

```
long PP100_GetJobStatusEX (unsigned long ulHandle, char pJobID[41],
char pPublisherName[65], PP100_JOB_STATUS_EX pJobStatus[], unsigned
long * pJobStatusNum)
```

Argument

Argument		Explanation
IN	ulHandle	Server handle obtained with PP100_ConnectServer
IN	pJobID[41]	When job ID NULL is specified, the status of all jobs is obtained
IN	pPublisherName[65]	Device name registered in DiscSetup. When not specified, all devices are targets.
OUT	pJobStatus[]	Job status storage destination buffer. The memory area of this array must be allocated by the caller. See " PP100_JOB_STATUS_EX " on page 120.
IN/OUT	pJobStatusNum	The number of arrays of pJobStatus[]

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. ulHandle is NULL b. pJobID[41] is NULL c. pJobStatus[] is NULL d. pJobStatusNum is NULL
PP100API_HOST_NOT_FOUND	The host specified with ulHandle is not found
PP100API_PUBLISHER_NOT_FOUND	Discproducer specified with pPublisherName[65] is not found
PP100API_ACCESS_DENIED	Access to the directory was denied
PP100API_MORE_ITEMS	The number of arrays specified with pJobStatusNum is insufficient. In this case, the required number of arrays is assigned to pJobStatusNum.
PP100API_INFORMATION_CODE_NOT_DEFINED	The job specified with pJobID[41] is not recognized
PP100API_FAILURE	Failure

PP100_CreateJob

Creates a new job.

Syntax

```
long PP100_CreateJob (char pJobID[41])
```

Argument

Argument		Explanation
OUT	pJobID[41]	Job ID

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_FAILURE	Failure

PP100_GetCreatedJobList

Enumerates the job IDs of the jobs created with [PP100_CreateJob](#).

Syntax

```
long PP100_GetCreatedJobList (char ** ppJobID, unsigned long * pJobID-
Num)
```

Argument

Argument		Explanation
OUT	ppJobID	Pointer to the job ID storage destination buffer array
IN/OUT	pJobIDNum	Number of jobs

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID is NULL b. pJobIDNum is NULL
PP100API_MORE_ITEMS	The number of arrays specified with pJobIDNum is insufficient. In this case, the required number of arrays is assigned to pJobIDNum.
PP100API_FAILURE	Failure

PP100_CopyJob

Copies the contents of the job created with [PP100_CreateJob](#) and assigns another job ID.

Syntax

```
long PP100_CopyJob (char pSourceJobID[41], char pDestinationJobID[41])
```

Argument

Argument		Explanation
IN	pSourceJobID[41]	Copy source job ID
OUT	pDestinationJobID[41]	Copy destination job ID

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pSourceJobID[41] is NULL b. pDestinationJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pSourceJobID[41] is not created
PP100API_FAILURE	Failure

PP100_DeleteJob

Deletes the job created with [PP100_CreateJob](#).

Syntax

```
long PP100_DeleteJob (char pJobID[41])
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pSourceJobID[41] is not created
PP100API_FAILURE	Failure

PP100_SubmitJob

Publishes the job created with [PP100_CreateJob](#).

Syntax

```
long PP100_SubmitJob (unsigned long ulHandle, char pJobID[41], bool
bAutoDelete)
```

Argument

Argument		Explanation
IN	ulHandle	Server handle obtained with PP100_ConnectServer
IN	pJobID[41]	Job ID
IN	bAutoDelete	true: When successful, this function deletes the job specified with pJobID[41]. false: This function does not delete the job. Therefore, the job must be deleted using PP100_DeleteJob when it is no longer necessary.

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. ulHandle is NULL b. pJobID[41] is NULL
PP100API_HOST_NOT_FOUND	The host specified with ulHandle is not found
PP100API_ACCESS_DENIED	Access to the folder was denied
PP100API_JOB_NOT_CREATED	The job specified with pSourceJobID[41] is not created
PP100API_JOB_SUBMITTED	The same job has already been published to the same server
PP100API_FAILURE	Failure

PP100_CancelJob

Cancels a job.

Syntax

```
long PP100_CancelJob (unsigned long ulHandle, char pJobID[41])
```

Argument

Argument		Explanation
IN	ulHandle	Server handle obtained with PP100_ConnectServer
IN	pJobID[41]	Job ID

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. ulHandle is NULL b. pJobID[41] is NULL
PP100API_HOST_NOT_FOUND	The host specified with ulHandle is not found
PP100API_ACCESS_DENIED	Access to the folder was denied
PP100API_JOB_IS_SUBMITTED_BY_TOTAL_DISC_MAKER	The job specified with pJobID[41] is published directly by Total Disc Maker and cannot be canceled.
PP100API_INFORMATION_CODE_NOT_DEFINED	The job specified with pJobID[41] is not recognized
PP100API_JOB_IS_ALREADY_FINISHED	The job specified with pJobID[41] is completed
PP100API_FAILURE	Failure

PP100_SubmitSession

When the job created with [PP100_CreateJob](#) is published, the disc remains in the drive ready for additional writing.

Executing this API after this process allows you to divide the writing into multiple sessions.

Executing [PP100_SubmitJob](#) at the end prohibits additional writing on the disc and ejects the disc from the drive.

The disc written with this API is used as a Multi Session disc.

For details, refer to "[Multisession Burning Function](#)" on page 142.

Syntax

```
long PP100_SubmitSession(unsigned long ulHandle, char pJobID[41],
    unsigned long * pSessionCount)
```

Argument

Argument		Explanation
IN	ulHandle	Server handle obtained with PP100_ConnectServer
IN	pJobID[41]	ID to identify the job obtained with PP100_CreateJob
OUT	pSessionCount	The number of session written to the disc is returned

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. ulHandle is NULL b. pJobID is NULL
PP100API_HOST_NOT_FOUND	The host specified with ulHandle is not found
PP100API_ACCESS_DENIED	Access to the directory was denied
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SUBMITTED	The same job has already been published to the same server
PP100API_FAILURE	Failure

PP100_GetMultiSession

Determines whether the job is specified for writing to Multi Session discs.

Syntax

```
long PP100_GetMultiSession (char pJobID[41], bool * pMultiSession)
```

Argument

Argument		Explanation
IN	pJobID[41]	ID to identify the job obtained with PP100_CreateJob
OUT	pMultiSession	true: The job is published with PP100_SubmitSession false: The job is not published with PP100_SubmitSession

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_SetSessionTimeout

Specifies the timeout value between the end of the previous writing and execution of the next [PP100_SubmitSession](#) in Multi Session Burning.

If [PP100_SubmitSession](#) is not executed before the specified timeout value has elapsed, the corresponding job is canceled, label printing is not performed, and it will be ejected to the error stacker.

If PP100API_NOT_TIMEOUT is specified, the timeout will not be executed. If this function is not used, or if "0" is specified for ulSessionTimeout, a value of "1,800" seconds is specified.

Syntax

```
long PP100_SetSessionTimeout (char pJobID[41], unsigned long ulSessionTimeout)
```

Argument

Argument		Explanation
IN	pJobID[41]	ID to identify the job obtained with PP100_CreateJob
OUT	ulSessionTimeout	Timeout value (Unit: sec.) If this argument is omitted, "1800" (30 min.) is specified.

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetSessionTimeout

Obtains the timeout value between the end of the previous writing and execution of the next [PP100_SubmitSession](#) in Multi Session Burning.

Syntax

```
long PP100_GetSessionTimeout (char pJobID[41], unsigned long * pSessionTimeout)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pSessionTimeout	Timeout value (Unit: sec.)

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pSessionTimeout is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetSessionCount

Obtains the number of sessions written with the specified Multi Session Burning job (the number of times [PP100_SubmitSession](#) is executed).

Syntax

```
long PP100_GetSessionCount (char pJobID[41], unsigned long * pSessionCount)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pSessionCount	Number of sessions

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pSessionCount is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetDiscRemaining

Obtains the remaining amount of free space on the disc for the specified Multi Session Burning job.

Syntax

```
long PP100_GetDiscRemaining (char pJobID[41], unsigned long long *
pDiscRemaining)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pDiscRemaining	Remaining amount of free space on the disc (Unit: byte)

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pDiscRemaining is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_SetPublisher

Sets the PUBLISHER parameter of the job. Setting this item is optional.



NOTE

When only one output device is registered with Total Disc Setup, this API can be omitted.

Syntax

```
long PP100_SetPublisher (char pJobID[41], char pPublisher[65])
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	pPublisher[65]	Specify a name of the disc publishing device. When not specified, the output device specified in the Environment Settings of TD Bridge will be used. If the output device in the Environment Settings is not also specified, the output device registered by Total Disc Setup will be used as long as only one device has been registered. (When multiple devices have been registered, an error will occur.) Max. No. of characters: 64 Available characters: Device name registered with Total Disc Setup

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetPublisher

Obtains the PUBLISHER parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pPublisher[65].

Syntax

```
long PP100_GetPublisher (char pJobID[41], char pPublisher[65])
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pPublisher[65]	Device name

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pPublisher[65] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetCopies

Sets the COPIES parameter of the job. Setting this item is optional.

Syntax

```
long PP100_SetCopies (char pJobID[41], unsigned long ulNumber)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	ulNumber	Specify the number of discs to be published. Selectable from 1 to 1000. When not specified, only one disc will be published. Max. No. of characters: 49 Available characters: One-byte numbers

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetCopies

Obtains the COPIES parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pNumber.

Syntax

```
long PP100_GetCopies (char pJobID[41], unsigned long * pNumber)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pPublisher[65]	Number of discs to be published

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pNumber is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetOutStacker

Sets the OUT_STACKER parameter of the job. Setting this item is optional.

Syntax

long PP100_SetOutStacker (char pJobID[41], unsigned long ulOutStacker)

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	ulOutStacker	<p>Specify an output stacker.</p> <p>[When the publisher is in Standard Mode]</p> <ul style="list-style-type: none"> [PP-100III / PP-100NII] <p>When selecting the stacker 2 as the output stacker: PP100API_STACKER2</p> <p>When selecting the stacker 3 as the output stacker: PP100API_STACKER3</p> <p>When selecting the stacker 4 as the output stacker: PP100API_STACKER4</p> [PP-50II] <p>When selecting the stacker 2 as the output stacker: PP100API_STACKER2</p> <p>When selecting the stacker 3 as the output stacker: PP100API_STACKER3</p> <p>When not specified, the output stacker specified in the Environment Settings of TD Bridge is used. If the Environment Settings also have not specified the output stacker, the stacker 2 will be used.</p> <p>[When the publisher is Not in Standard Mode]</p> <p>Invalid (ignored if a stacker is specified)</p>

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetOutStacker

Obtains the OUT_STACKER parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pOutStacker.

Syntax

```
long PP100_GetOutStacker (char pJobID[41], unsigned long * pOut-
Stacker)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pOutStacker	Output stacker

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pOutStacker is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetInStacker

Sets the IN_STACKER parameter of the job. Setting this item is optional.

Syntax

long PP100_SetInStacker (char pJobID[41], unsigned long ullInStacker)

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	ullInStacker	<p>Specify the stacker to be used as the input stacker. [When the publisher is in External Output Mode]</p> <p>When selecting the stacker 1 as the input stacker: PP100API_STACKER1 When selecting the stacker 2 as the input stacker: PP100API_STACKER2 When selecting the stackers 1 and 2 as the input stacker: PP100API_STACKER1_OR_STACKER2 (When not specified, PP100API_STACKER1_OR_STACKER2 is regarded as specified and the stacker where the media specified with SetDiscType (page 91) is set is selected.)</p> <p>[When the publisher is Not in External Output Mode] Invalid (ignored if a stacker is specified)</p>

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetInStacker

Obtains the IN_STACKER parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pInStacker.

Syntax

```
long PP100_GetInStacker (char pJobID[41], unsigned long * pInStacker)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pInStacker	Source stacker

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pInStacker is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetDiscType

Sets the DISC_TYPE parameter of the job. Setting this item is required.

Syntax

```
long PP100_SetDiscType (char pJobID[41], unsigned long ulDiscType)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	ulDiscType	Specify the type of disc to be published. To publish a CD: PP100API_CD To publish a single-layer DVD: PP100API_DVD To publish a dual-layer DVD: PP100API_DVD_DL To publish a single-layer BD: PP100API_BD To publish a dual-layer BD: PP100API_BD_DL To publish a BD-R XL 100: PP100API_BD_XL100 To publish a BD-R XL 128: PP100API_BD_XL128

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetDiscType

Obtains the DISC_TYPE parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pDiscType.

Syntax

```
long PP100_GetDiscType (char pJobID[41], unsigned long * pDiscType)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pDiscType	Disc type

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pDiscType is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetWritingSpeed

Sets the WRITING_SPEED parameter of the job. Setting this item is optional.

Syntax

```
long PP100_SetWritingSpeed (char pJobID[41], float fWritingSpeed)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	fWritingSpeed	<p>Specify the writing speed depending on the specified disc type. Specify the write speed [N] (_X write).</p> <p>[When the disc type is CD-R] 40, 32, 24, 16, 10, 4</p> <p>[When the disc type is DVD-R] 12, 8, 6, 4, 2, 1</p> <p>[When the disc type is DVD+R] 12, 8, 6, 4, 2.4</p> <p>[When the disc type is DVD-R DL] 8, 6, 4, 2</p> <p>[When the disc type is DVD+R DL] 8, 6, 4, 2.4</p> <p>[When the disc type is BD] 8, 6, 4, 2</p> <p>[When the disc type is BD DL] 8, 6, 4, 2</p> <p>[When the disc type is BD-R XL 100/ BD-R XL 128] 6, 4, 2</p> <p>[Common to all disc types] When a write speed other than those listed above is specified, the next slower speed in the available settings is applied. When not specified, the highest speed is applied.</p>

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	<p>The following OR conditions are satisfied</p> <p>a. pJobID[41] is NULL</p> <p>b. fWritingSpeed is less than 0</p>
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetWritingSpeed

Obtains the WRITING_SPEED parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pWritingSpeed.

Syntax

```
long PP100_GetWritingSpeed (char pJobID[41], float * pWritingSpeed)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pWritingSpeed	Writing speed, a positive number rounded down to one decimal place

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pWritingSpeed is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetCompare

Sets the COMPARE parameter of the job. Setting this item is optional.

Syntax

```
long PP100_SetCompare (char pJobID[41], unsigned long ulCompare)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	ulCompare	Specify whether to compare the written data with the source data. When not specified, the data is not compared. To enable comparison: PP100API_COMPARE To disable comparison: PP100API_DONT_COMPARE

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetCompare

Obtains the COMPARE parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pCompare.

Syntax

```
long PP100_GetCompare (char pJobID[41], unsigned long * pCompare)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pWritingSpeed	Comparison setting

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pCompare is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetFormat

Sets the FORMAT parameter of the job. Setting this item is optional.

Syntax

```
long PP100_SetFormat (char pJobID[41], unsigned long ulWritingFormat)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	ulWritingFormat	Specify a recording format when creating a data disc. [When the disc type is CD] When creating the CD in ISO9660 Level 2 format: PP100API_ISO9660L2 When creating the CD in UDF1.02 format: PP100API_UDF102 When not specified, the CD is created in ISO9660 Level 2 format. [When the disc type is DVD] When creating the CD in UDF1.02 format: PP100API_UDF102 When not specified, the DVD is created in UDF1.02 format. [When the disc type is BD] When creating the BD in UDF1.02 format: PP100API_UDF102 When creating the BD in UDF2.60 format: PP100API_UDF260 When not specified, the BD is created in UDF2.60 format.

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetFormat

Obtains the FORMAT parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pWritingFormat.

Syntax

```
long PP100_GetFormat (char pJobID[41], unsigned long * pWritingFormat)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pWritingFormat	Writing format

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pWritingFormat is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetData

Sets the DATA parameter again after the DATA parameter of the job is initialized. Setting this item is optional.

Syntax

```
long PP100_SetData (char pJobID[41], PP100_WRITE_DATA pWriteData[],
unsigned long ulWriteDataNum)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	pWriteData[]	Specify folders and files to be written to the data disc. See "PP100_WRITE_DATA" on page 120 . When creating data discs, specify the write data directory path to the source file and that to the destination. The directory path to the source file must be the path from the computer on which TD Bridge installed. (For an explanation on the directory path to the destination, see "Recording Formats and Restrictions" on page 14 .)
IN	ulWriteDataNum	The number of arrays of pWriteData[]

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pWriteData[] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_AddData

Adds to the existing DATA parameter of the job.

Syntax

```
long PP100_AddData (char pJobID[41], PP100_WRITE_DATA pWriteData[],
    unsigned long ulWriteDataNum)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	pWriteData[]	Write data See "PP100_WRITE_DATA" on page 120 .
IN	ulWriteDataNum	The number of arrays of pWriteData[]

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pWriteData[] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_DeleteData

Function to delete the DATA parameter of the job. After checking whether the specified data exists, this deletes the data if it exists and returns a success if not.

Syntax

```
long PP100_DeleteData (char pJobID[41], PP100_WRITE_DATA pWriteData[], unsigned long ulWriteDataNum)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	pWriteData[]	Write data See "PP100_WRITE_DATA" on page 120 .
IN	ulWriteDataNum	The number of arrays of pWriteData[]

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pWriteData[] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetData

Obtains the DATA parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pWriteData[].

Syntax

```
long PP100_GetData (char pJobID[41], PP100_WRITE_DATA pWriteData[],
    unsigned long * pWriteDataNum)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pWriteData[]	Write data storage destination buffer See "PP100_WRITE_DATA" on page 120.
in/out	pWriteDataNum	The number of arrays of pWriteData[]

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pWriteData[] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_MORE_ITEMS	The number of arrays specified with pWriteDataNum is insufficient. In this case, the required number of arrays is assigned to pWriteDataNum.
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetVolumeLabel

Sets the VOLUME_LABEL parameter of the job. Setting this item is optional.



NOTE

This is used when the volume label is set to the data disc.

Syntax

```
long PP100_SetVolumeLabel (char pJobID[41], char pVolumeLabel[63])
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	pVolumeLabel[63]	Specify the volume label of the data disc.



NOTE

Available characters are restricted depending on the recording format.

ISO9660L2: Up to 32 characters. Characters other than one-byte numerical/uppercase alphabetical characters and "_" cannot be used.

Joliet: Up to 16 characters. Characters other than one-byte numerical/uppercase alphabetical characters and "_" cannot be used.

UDF: Up to 62 characters.

UDF Bridge: Up to 32 characters. Characters other than one-byte numerical/uppercase alphabetical characters and "_" cannot be used.

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetVolumeLabel

Obtains the VOLUME_LABEL parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pVolumeLabel[63].

Syntax

```
long PP100_GetVolumeLabel (char pJobID[41], char pVolumeLabel[63])
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pVolumeLabel[63]	Volume label

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pVolumeLabel[63] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetLabel

Sets the LABEL parameter of the job. Setting this item is optional.

Syntax

```
long PP100_SetLabel (char pJobID[41], char pLabel[256])
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	pLabel[256]	<p>When making a label print, specify the directory path to the label file. The label file directory path must be the path from the computer on which TD Bridge is installed.</p> <p>A file made with Inkscape (.SVG), or a PNG/JPEG file is specified for a label file.</p> <p>Max. No. of characters: 255</p> <p>Available characters: Characters valid as a directory path</p>

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetLabel

Obtains the LABEL parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pLabel[256].

Syntax

```
long PP100_GetLabel (char pJobID[41], char pLabel[256])
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pLabel[256]	Label file

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pLabel[256] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetLabelType

Sets the LABEL_TYPE parameter of the job. Setting this item is optional.

Syntax

```
long PP100_SetLabelType (char pJobID[41], unsigned long ulLabelType)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	ulLabelType	Specify the label type. [To specify CD/DVD label] PP100API_CD_DVD_LABEL [To specify high-quality CD/DVD label] PP100API_CD_DVD_PREMIUM_LABEL [To specify EPSON-certified CD/DVD label] PP100API_EPSON_SPECIFIED_CD_DVD_LABEL [When not specified] The label type in the Environment Settings will be used.

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetLabelType

Obtains the LABEL_TYPE parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pLabelType.

Syntax

```
long PP100_GetLabelType (char pJobID[41], unsigned long * pLabelType)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pLabelType	Label type

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pLabelType is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetReplaceFieldText

Sets the REPLACE_FIELD parameter again after REPLACE_FIELD parameter of the job is initialized. (Text)

To add the REPLACE_FIELD parameter to the job, use [PP100_AddReplaceFieldText](#). (page 110)

Syntax

```
long PP100_SetReplaceFieldText (char pJobID[41], PP100_REPLACE_
FIELD_TEXT pReplaceFieldText[], unsigned long ulReplaceFieldTextNum)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	pReplaceFieldText[]	Merge print data (text) See " PP100_REPLACE_FIELD_TEXT " on page 121.
IN	ulReplaceFieldTextNum	The number of arrays of pReplaceFieldText[]

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pReplaceFieldText[] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_AddReplaceFieldText

Adds to the existing REPLACE_FIELD parameter of the job. (Text)

Syntax

```
long PP100_AddReplaceFieldText (char pJobID[41], PP100_REPLACE_
FIELD_TEXT pReplaceFieldText[], unsigned long ulReplaceFieldTextNum)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	pReplaceFieldText[]	Merge print data (text) See "PP100_REPLACE_FIELD_TEXT" on page 121.
IN	ulReplaceFieldTextNum	The number of arrays of pReplaceFieldText[]

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pReplaceFieldText[] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_DeleteReplaceFieldText

Deletes the REPLACE_FIELD parameter of the job. After checking whether the specified data exists, this deletes the data if it exists and returns a success if not. (Text)

Syntax

```
long PP100_DeleteReplaceFieldText (char pJobID[41], PP100_REPLACE_
FIELD_TEXT pReplaceFieldText[], unsigned long ulReplaceFieldTextNum)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	pReplaceFieldText[]	Merge print data (text) See "PP100_REPLACE_FIELD_TEXT" on page 121.
IN	ulReplaceFieldTextNum	The number of arrays of pReplaceFieldText[]

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pReplaceFieldText[] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetReplaceFieldText

Obtains the REPLACE_FIELD parameter of the job. (Text) Only when the return value is PP100API_SUCCESS, the obtained value is stored in pReplaceFieldText[].

Syntax

```
long PP100_GetReplaceFieldText (char pJobID[41], PP100_REPLACE_
FIELD_TEXT pReplaceFieldText[], unsigned long * pReplaceFieldTextNum)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pReplaceFieldText[]	Merge print data (text) See "PP100_REPLACE_FIELD_TEXT" on page 121.
IN/OUT	ulReplaceFieldTextNum	The number of arrays of pReplaceFieldText[]

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pReplaceFieldText[] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_MORE_ITEMS	The number of arrays specified with pReplaceFieldTextNum is insufficient. In this case, the required number of arrays is assigned to pReplaceFieldTextNum.
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetLabelArea

Sets the LABEL_AREA parameter of the job.

Syntax

```
long PP100_SetLabelArea (char pJobID[41], unsigned long ulDiscDiamOut, unsigned long ulDiscDiamIn)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	ulDiscDiamOut	Outside diameter (When not specified, "0" is used. When specified, the value is between 700 and 1194 in units of 1/10 mm)
IN	ulDiscDiamIn	Inside diameter (When not specified, "0" is used. When specified, the value is between 180 and 500 in units of 1/10 mm)



NOTE

This setting is invalid when either a JPEG or PNG file is not specified to the LABEL parameter ([page 105](#)). (Ignored if a file is specified)
For more details, see "[Label Print Specifications](#)" on [page 15](#).

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetLabelArea

Obtains the LABEL_AREA parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pDiscDiamOut and pDiscDiamIn.

Syntax

```
long PP100_GetLabelArea (char pJobID[41], unsigned long * pDiscDiamOut, unsigned long * pDiscDiamIn)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pDiscDiamOut	Outside diameter
OUT	pDiscDiamIn	Inside diameter

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pDiscDiamOut is NULL c. pDiscDiamIn is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

PP100_SetPrintMode

Sets the PRINT_MODE parameter of the job. Setting this item is optional.



NOTE

This setting is invalid when the label type is "EPSON-certified CD/DVD label".

Syntax

long PP100_SetPrintMode (char pJobID[41], unsigned long ulPrintMode)

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
IN	ulPrintMode	Specify the print mode. [To give priority to print quality] PP100API_PRINTMODE1 [To give priority to print speed] PP100API_PRINTMODE2 [When not specified] The print mode in the Environment Settings will be used.

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied pJobID[41] is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_FAILURE	Failure

PP100_GetPrintMode

Obtains the PRINT_MODE parameter of the job. Only when the return value is PP100API_SUCCESS, the obtained value is stored in pPrintMode.

Syntax

```
long PP100_GetPrintMode (char pJobID[41], unsigned long * pPrintMode)
```

Argument

Argument		Explanation
IN	pJobID[41]	Job ID
OUT	pPrintMode	Print mode

Return Value

Error Status	Explanation
PP100API_SUCCESS	Success
PP100API_NOT_INITIALIZED	Executed before PP100_Initialize is executed
PP100API_INVALID_PARAMETER	The following OR conditions are satisfied a. pJobID[41] is NULL b. pPrintMode is NULL
PP100API_JOB_NOT_CREATED	The job specified with pJobID[41] is not created
PP100API_JOB_SETTING_NOT_SET	No value is set for argument
PP100API_FAILURE	Failure

Structure

When PP100API.h is included, the following structures can be used:

Structure	Explanation
PP100_ENUM_PUBLISHER_INFO	Information of Discproducer
PP100_INK_STATUS	Ink remaining amount of Discproducer
PP100_PUBLISHER_STATUS	Status of Discproducer
PP100_JOB_STATUS	Job status of Discproducer
PP100_JOB_STATUS_EX	Job status of Discproducer
PP100_WRITE_DATA	Write data of Discproducer
PP100_REPLACE_FIELD_TEXT	Character string data of label merge print (text)

PP100_ENUM_PUBLISHER_INFO

Structure of Discproducer information.

Variable	Explanation
char pPublisherName [65]	Name registered with Total Disc Setup
unsigned long ulDriveNumber	Number of drives
unsigned long ulConnectType	Connection type (page 122)
unsigned char ucReserved [512]	Reserved area

PP100_INK_STATUS

Structure of each ink remaining amount (0 to 100) of Discproducer. When unknown, the error code PP100API_ERROR is stored.

Variable	Explanation
unsigned long ulCyan	Remaining amount of cyan ink
unsigned long ulMagenta	Remaining amount of magenta ink
unsigned long ulYellow	Remaining amount of yellow ink
unsigned long ulLightCyan	Remaining amount of light cyan ink
unsigned long ulLightMagenta	Remaining amount of light magenta ink
unsigned long ulBlack	Remaining amount of black ink

PP100_PUBLISHER_STATUS

Structure of Discproducer status.

Variable		Explanation
unsigned long	ulINFORMATIONCode [50]	INFORMATION code (page 135)
unsigned long	ulMode	Publish mode (page 122)
unsigned long	ulDriveStatus [2]	Drive status (page 122)
char	pDrivePluginName [2][41]	Area for compatibility with Windows
unsigned long	ulDriveLife [2]	Service life of drive (0 to 100). When unknown, the error code PP100API_UNKNOWN is stored.
unsigned long	ulPrinterStatus	Printer status (page 122)
PP100_INK_STATUS	stInkStatus	Ink remaining amount (page 117)
unsigned long	ulStackerSetting [4]	Stacker settings
unsigned long	ulStackerRest [4]	Remaining amount of free space on the disc in the stacker (0 to 100). When unknown, the error code PP100API_ERROR is stored.
unsigned long	ulPrintableCopies	Area for compatibility with Windows
unsigned long	ulPrintedCopies	Number of printed discs
unsigned long	ulMaintenanceBoxFreeSpace	Maintenance Box free space (0 to 100) (PP-100III). When unknown, the error code PP100API_ERROR is stored.
char	pSerialNumber [33]	Serial number of Discproducer
unsigned long	ulDriveProgress [2]	Progress status of drive (0 to 100). When unknown, the error code PP100API_UNKNOWN is stored.
unsigned long	ulCompleteDiscNum	Total discs published (PP-100III). When unknown, the error code PP100API_ERROR is stored.
unsigned long	ulUsbConnectionMode	USB connection mode (page 123)
unsigned char	ucReserved [496]	Reserved area

PP100_JOB_STATUS

Structure of Discproducer job status.

Variable		Explanation
char	pJobID [41]	Job ID
char	pPublisherName [65]	Name registered with Total Disc Setup
unsigned long	ulJobStatus	Job status (page 124)
unsigned long	ulErrorCode	Cause of error/waiting for return (page 126)
unsigned long	ulPublicationNumber	Number of discs to be published
unsigned long	ulCompletionNumber	Number of completed discs
unsigned long	ulJobType	Job type (page 123)
unsigned long	ulSource	Source stacker (page 89)
unsigned long	ulDestination	Output stacker (page 87)
unsigned long	ulJobIndex	Area for compatibility with Windows
unsigned long	ulEstimateTime	Estimated process time (sec.)
unsigned long	ulErrorNumber	Number of failed discs
unsigned long	ulMode	Publish mode (page 122)
unsigned char	ucIsSubmittedByTotalDiscMaker	0 (Fixed)
unsigned long	ulRemainingEstimateTime	Estimated remaining process time (sec.)
unsigned char	ucReserved [508]	Reserved area

PP100_JOB_STATUS_EX

Structure of Discproducer job status.

Variable		Explanation
char	pJobID [41]	Job ID
char	pPublisherName [65]	Name registered with Total Disc Setup
char	pJobName[256]	Job name
char	pPublicationPerson[65]	Job creator
unsigned long	ulJobStatus	Job status (page 124)
unsigned long	ulErrorCode	Cause of error/waiting for return (page 126)
unsigned long	ulPublicationNumber	Number of discs to be published
unsigned long	ulCompletionNumber	Number of completed discs
unsigned long	ulJobType	Job type (page 123)
unsigned long	ulSource	Source stacker (page 89)
unsigned long	ulDestination	Output stacker (page 87)
unsigned long	ulJobIndex	Area for compatibility with Windows
unsigned long	ulEstimateTime	Estimated process time (sec.)
unsigned long	ulErrorNumber	Number of failed discs
unsigned long	ulMode	Publish mode (page 122)
unsigned char	ucIsSubmittedByTotalDiscMaker	0 (Fixed)
unsigned long	ulRemainingEstimateTime	Estimated remaining process time (sec.)
unsigned char	ucReserved [508]	Reserved area

PP100_WRITE_DATA

Structure of write data of Discproducer.

Variable		Explanation
char	pSourceData [256]	Write source data
char	pDestinationData [256]	Write destination data

PP100_REPLACE_FIELD_TEXT

Structure to store the character string data of label merge print (text)

Variable		Explanation
char	pName [1025]	Item name to be replaced with text for merge print
char	pValue [1025]	Character string to be merged

Constant Definition

Device Information

Constant (Value)	Explanation
PP100API_CONNECTTYPE_USB	USB model
PP100API_CONNECTTYPE_ETH	Network model

Publish Mode

Constant (Value)	Explanation
PP100API_NORMAL_MODE	Standard mode
PP100API_OUTPUT_MODE	External output mode
PP100API_BATCH_MODE	Batch mode

Drive Status/Printer Status

Constant (Value)	Explanation	Drive	Printer
PP100API_WAITING	Standby	✓	✓
PP100API_TRANSFERRING	Transferring	✓	✓
PP100API_PAUSED	Stopping	✓	✓
PP100API_PRINTING	Printing		✓
PP100API_DRYING	Drying		✓
PP100API_CLEANING	Cleaning		✓
PP100API_WRITING	Writing	✓	
PP100API_VERIFYING_WRITE	Verifying write	✓	
PP100API_UNUSED	Unused	✓	

USB Connection Mode

Constant (Value)	Explanation
PP100API_USB_20	USB2.0
PP100API_USB_30	USB3.0

JOB Type

Constant (Value)	Explanation
PP100API_JOB_TYPE_WRITE	Write job
PP100API_JOB_TYPE_PRINT	Print job
PP100API_JOB_TYPE_PUBLISH	Write job and print job
PP100API_JOB_TYPE_CLEANNING	Cleaning job
PP100API_JOB_TYPE_NOZZLECHECK	Nozzle check job
PP100API_JOB_TYPE_GAPADJUSTMENT	Gap adjustment job
PP100API_JOB_TYPE_POSITIONOFFSET	Offset adjustment job

JOB Status

Constant	Explanation
PP100API_JOB_PROCESSING_TO_ACCEPT	Job is processing to be accepted
PP100API_JOB_WAITING	Job is waiting to be published
PP100API_JOB_RUNNING	Job is being published
PP100API_JOB_PAUSING	Job is in the pausing process
PP100API_JOB_RECOVERING	Job is waiting for return processing
PP100API_JOB_CANCELING	Job is being canceled
PP100API_JOB_PAUSED	Job is paused
PP100API_JOB_STANDBY	Job is waiting for return. The job automatically restarts once the remedy is performed.
PP100API_JOB_PUBLISHED	Job has been published
PP100API_JOB_PUBLISHED_WARNING_NO_ERROR_DISC	Job has been published (with warning, no error disc)
PP100API_JOB_PUBLISHED_WARNING_ERROR_DISC	Job has been published (with warning, with error disc)
PP100API_JOB_USER_CANCELLED	Job is canceled by the user
PP100API_JOB_ERROR_CANCELLED	Job is canceled due to an error
PP100API_JOB_DENIED	Job is not accepted

Constant for JOB Definition

Constant (Value)	Explanation
PP100API_STACKER1	Stacker 1
PP100API_STACKER2	Stacker 2
PP100API_STACKER3	Stacker 3
PP100API_STACKER4	Stacker 4
PP100API_STACKER1_OR_STACKER2	Stacker 1, Stacker 2
PP100API_STACKER2_OR_STACKER3	Stacker 2, Stacker 3
PP100API_STACKER2_OR_STACKER4	Stacker 2, Stacker 4
PP100API_NOSETTING	Not set
PP100API_CD	CD
PP100API_DVD	DVD
PP100API_DVD_DL	DVDDL
PP100API_BD	BD
PP100API_BD_DL	BDDL
PP100API_BD_XL100	BD-R XL 100
PP100API_BD_XL128	BD-R XL 128
PP100API_COMPARE	Enable compare
PP100API_DONT_COMPARE	Disable compare
PP100API_ISO9660L2	ISO9660 Level 2
PP100API_JOLIET	Joliet
PP100API_UDF102	UDF1.02
PP100API_UDF102_BRIDGE	UDF1.02 + UDFBridge
PP100API_UDF150	UDF1.50
PP100API_UDF260	UDF2.60
PP100API_CD_DVD_LABEL	CD/DVD label
PP100API_CD_DVD_PREMIUM_LABEL	High-quality CD/DVD label
PP100API_EPSON_SPECIFIED_CD_DVD_LABEL	EPSON-certified CD/DVD label
PP100API_PRINTMODE1	Print Mode 1
PP100API_PRINTMODE2	Print Mode 2
PP100API_PRINTMODE3	Print Mode 3
PP100API_NOT_TIMEOUT	No timeout

Error Code

Before Accepting Jobs

Job status	Related functions	Error Code	Description and Remedy
System error		PP100API_SYS001	Accepting the job is failed. <ul style="list-style-type: none"> The model identification for the registered PUBLISHER could not be acquired. The comprehensive control service (EPSON Total Disc Control Service) has not been launched, or the service status could not be acquired. The working folder could not be found or the user does not have the correct access privileges. There is not enough available space in the working folder. Unexpected error.
		PP100API_SYS002	Executing the job failed due to the communication error with the publishing machine.
		PP100API_SYS003	Executing the job failed because the HDD of the publishing machine does not have enough space.
Not accepted	PUBLISHER key	PP100API_JDF0200	The output device name specified with the PUBLISHER parameter has not been registered.
		PP100API_JDF0201	The output device name specified with the PUBLISHER parameter is set to an unsupported mode, or the mode cannot be acquired.
		PP100API_JDF0202	Multiple output devices are detected, but none of them has been specified using the PUBLISHER parameter. Or, no output device has been specified in the Environment Settings, thus, the system is unable to identify the output device.
		PP100API_JDF0203	There is no valid output device that has been registered.
	DISC_TYPE key	PP100API_JDF0500	The disc type specified with the DISC_TYPE parameter is not the same as that of the specified source stacker.
		PP100API_JDF0501	The DISC_TYPE parameter has not been specified.
		PP100API_JDF0502	A value other than an available constant has been specified. (page 91)

Job status	Related functions	Error Code	Description and Remedy
Not accepted	DATA key DATA_LIST key	PP100API_JDF0901	A file with the same name cannot be specified in the same folder.
		PP100API_JDF0902	The specified directory path (including the file name) does not conform to the specified recording format.
		PP100API_JDF0903	The source file size is too large for the specified disc type of the destination file.
		PP100API_JDF0904	The destination folder hierarchy is exceeding 128 levels.
		PP100API_JDF0907	The specified source file contains a non-existing content.
		PP100API_JDF0908	The specified source file contains a file to which the current user does not have read/write access.
		PP100API_JDF0914	The file specified is over 4095 MB and cannot be written with the specified recording format.
	VOLUME_LABE key	PP100API_JDF1000	The specified Volume Label does not conform to the specified recording format.
	FORMAT key	PP100API_JDF1400	Disc type CD and data file have been specified; however, a value other than "ISO9660L2", "JOLIET", or "UDF102" has been specified in the FORMAT parameter.
		PP100API_JDF1401	Disc type DVD or DVD-DL and data file have been specified; however, a value other than an available constant has been specified in the FORMAT parameter. (page 97)
		PP100API_JDF1402	Disc type "BD", "BD-DL", "BD-XL100" or "BD-XL128" and data file have been specified, however, a value other than an available constant has been specified in the FORMAT parameter. (page 97)
	LABEL key	PP100API_JDF1500	The label file format specified with the LABEL parameter is not supported.
		PP100API_JDF1501	The label file specified with the LABEL parameter does not exist.
	PRINT_MODE key	PP100API_JDF2602	PP100API_PRINTMODE2 or PP100API_PRINTMODE3 is specified in the PRINT_MODE parameter, but PP100API_EPSON_SPECIFIED_CD_DVD_LABEL is specified in the LABEL_TYPE parameter.
		PP100API_JDF2603	PP100API_PRINTMODE3 cannot be specified in the PRINT_MODE parameter.
	Multisession writing	PP100API_JDF3005	The number of sessions has exceeded the limit for multisession writing.
		PP100API_JDF3006	The output model type is not PP-100III or PP-50II for multisession writing.
		PP100API_JDF3009	A value other than "UDF102" is specified for the FORMAT parameter for multisession writing.
		PP100API_JDF3010	The write data size exceeds the available space.
		PP100API_JDF3011	"DVD-DL" is specified as the disc type for multisession writing.

Job status	Related functions	Error Code	Description and Remedy
Not accepted	Others	PP100API_JDF0000	CD is specified for the disc type, but nothing is specified for the data file and label file.
		PP100API_JDF0001	DVD or DVD-DL is specified for the disc type, but nothing is specified for the data file and label file.
		PP100API_JDF0003	[PP-100III/ PP-100NII] "BD", "BD-DL", "BD-XL100" or "BD-XL128" is specified for the disc type, but nothing is specified for the data file, label file and Plug-In information.
		PP100API_JDF0004	[PP-100III/ PP-100NII] A job is published from TD Bridge when Read Back mode is set for the operation mode.

After Accepting Jobs

Job status	Related functions	Error Code	Description and Remedy
Accepted jobs	Cancel	PP100API_CAN000	Picking up a disc from the drive tray or the printer tray has failed. Remedy: Turn off Discproducer and turn it back on.
		PP100API_CAN001	A disc is dropped while being picked up. Remedy: (1) Turn Discproducer off and remove the dropped disc. (2) Turn Discproducer back on.
		PP100API_CAN002	Releasing a disc has failed. Remedy: Turn off Discproducer and turn it back on.
		PP100API_CAN003	A disc should have been set in the drive tray or the printer tray; however, no disc is detected in the tray. Remedy: (1) Turn Discproducer off and remove any foreign object inside the machine. (2) Turn Discproducer back on.
		PP100API_CAN004	In Batch mode, stacker 3 was not empty when the job was started. Therefore, the output stacker has become full during the job execution. Remedy: (1) Remove all discs from stacker 3 and empty it. (2) Put new blank discs into stacker 1 and stacker 2, then restart the job.
		PP100API_CAN005	An error occurs while the robotic arm is moving. Remedy: (1) Turn Discproducer off and remove any foreign object inside the machine. (2) Turn Discproducer back on.
		PP100API_CAN006	An autoloader fatal error has occurred. The robotic arm cannot be moved due to overheating of the motor. Remedy: (1) Turn Discproducer off and remove any foreign object inside the machine. (2) Turn Discproducer back on.
		PP100API_CAN007	Controlling the drive tray has failed. Remedy: (1) Turn Discproducer off and remove any foreign objects from the drive tray. (2) Turn Discproducer back on.

Job status	Related functions	Error Code	Description and Remedy
Accepted jobs	Cancel	PP100API_CAN008	Processing the job is impossible because of a fatal error of the drive. Remedy: Turn off Discproducer and turn it back on.
		PP100API_CAN009	Controlling the printer tray has failed. Remedy: (1) Turn Discproducer off and remove any foreign objects from the printer tray. (2) Turn Discproducer back on.
		PP100API_CAN010	A printer fatal error has occurred. Remedy: Turn off Discproducer and turn it back on.
		PP100API_CAN011	Communication with the printer has failed. Remedy: Check if the port setting on the printer driver is correct.
		PP100API_CAN012	The specified printer name is invalid. Remedy: Check if the CD/DVD publisher to be used is registered using EPSON Total Disc Setup.
		PP100API_CAN013	A printer maintenance error has occurred. Remedy: Please contact the store where you purchased Discproducer or our customer service.
		PP100API_CAN014	The waste ink pads need to be replaced. Remedy: Please contact the store where you purchased Discproducer or our customer service.
		PP100API_CAN015	A status error has occurred. Any of the following has been detected. (1) The disc on the drive tray disappeared. (2) The disc on the printer tray disappeared. (3) A disc was placed on the drive tray. (4) A disc was placed on the printer tray. (5) The robotic arm got a disc. Remedy: (1) Check if an error occurred inside the chassis. (2) Turn Discproducer back on.

Job status	Related functions	Error Code	Description and Remedy
Accepted jobs	Cancel	PP100API_CAN016	<p>A JOB file error has occurred. Any of the following has been detected.</p> <p>(1) The disc image file (ISO) does not exist or cannot be loaded.</p> <p>(2)The label data file (PRN) does not exist or cannot be loaded.</p> <p>(3)Disc image file (ISO) generation timed out.</p> <p>(4)Incorrect job information.</p> <p>(5)Next session information reception timed out.</p> <p>Remedy:</p> <ul style="list-style-type: none"> • Shorten the PP100_SubmitSession/PP100_SubmitJob call interval per session. • Increase the timeout value specified in PP100_SetSessionTimeout. <p>If this is not set, the default value is "1800" (30 minutes).</p>
		PP100API_CAN017	<p>A non-supported version error has occurred. Any of the following has been detected.</p> <p>(1) The firmware version of the autoloader is not supported.</p> <p>(2) The firmware version of drive 1 is different from the supported version.</p> <p>(3) The firmware version of drive 2 is different from the supported version.</p> <p>(4) The firmware version of the printer is not supported.</p> <p>Remedy:</p> <p>Upgrade the firmware of the concerning device.</p>
		PP100API_CAN018	<p>The publish mode specified by Total Disc Setup when publishing the job and the mode selected on the device are different.</p> <p>Remedy:</p> <p>Reset the publishing mode using Total Disc Setup.</p>
		PP100API_CAN019	<p>Any of the following has been detected.</p> <p>Creating a disc image file is canceled due to an invalid source directory path.</p> <p>Remedy:</p> <p>Check the files and folders in the specified source directory path.</p> <p>The job was interrupted while executing the Multi Session Burning function because the time between burning the previous data to receiving the next data reached the set timeout time.</p> <p>Remedy:</p> <p>Try re-registering the job from the first session.</p>
		PP100API_CAN020	<p>A communication error with the output device has occurred.</p> <p>Remedy:</p> <p>Check if the power supply cable and USB cable are securely connected.</p>

Job status	Related functions	Error Code	Description and Remedy
Accepted jobs	Pause	PP100API_STP000	Due to a disc type error or some other reason, the number of write retries has reached the number preset by Total Disc Setup. Remedy: (1) Check the discs in the source stacker. (2) Resume or cancel the paused job using Total Disc Monitor.
		PP100API_STP001	Due to a continuous write error, the number of write retries has reached the number preset by Total Disc Setup. Remedy: (1) Check the discs in the source stacker. (2) Resume or cancel the paused job using Total Disc Monitor. If the error still occurs, please contact the store where you purchased Discproducer or our customer service.
	Automatic recover	PP100API_RTN000	No disc is set in the source stacker specified for the job. Remedy: Set blank discs in the source stacker.
		PP100API_RTN001	The output stacker specified for the job has become full. Remedy: Remove the discs from the output stacker.
		PP100API_RTN002	The disc cover is open. Remedy: Close the disc cover.
		PP100API_RTN003	The ink cartridge cover is open. Remedy: Close the ink cartridge cover.
		PP100API_RTN004	The specified label print cannot be made because the ink level is low (the cartridge needs to be replaced). Remedy: Replace the ink cartridge(s) with a new one(s).
		PP100API_RTN005	No ink cartridge is detected. Remedy: Install the ink cartridges.
		PP100API_RTN006	The job cannot be made because the stacker has been removed. Remedy: Install the stacker.

Job status	Related functions	Error Code	Description and Remedy
Accepted jobs	Automatic recover	PP100API_RTN007	The stacker 3 installation status does not match with the specified publish mode. Remedy: Remove stacker 3 in Standard or External Output mode. Install stacker 3 in Batch mode.
		PP100API_RTN008	The job cannot be made because the stacker 4 is open. Remedy: Close stacker 4.
		PP100API_RTN009	Multiple discs have been transferred to the drive. Remedy: (1) Open the disc cover. (2) Remove the disc from the drive tray, and close the disc cover.
		PP100API_RTN010	Multiple discs have been transferred to the printer. Remedy: (1) Open the disc cover. (2) Remove the disc from the printer tray, and close the disc cover.
		PP100API_RTN011	Cannot recognize the ink cartridge. Remedy: Correctly install the ink cartridge.
		PP100API_RTN012	Picking up a disc from the source stacker has failed. Remedy: Separate any sticky discs in the source stacker from each other.
		PP100API_RTN013	The number of discs in the stacker has exceeded the upper limit. Remedy: Remove discs so that the number of discs in the stacker falls within the limit.
		PP100API_RTN014	The maintenance box cover is not placed correctly. Remedy: Check the status of the cover.
		PP100API_RTN015	Time to replace the maintenance box. Remedy: Replace the maintenance box with a new box.
		PP100API_RTN016	The maintenance box is not installed. Remedy: Install the maintenance box.
		PP100API_RTN017	Cannot recognize the maintenance box. Remedy: Correctly install the maintenance box.

Job status	Related functions	Error Code	Description and Remedy
Accepted jobs	Others	PP100API_OTH000	<p>Cannot obtain the job status. Disc publishing operation can be continued.</p> <p>This code may be temporarily output immediately after a job is published.</p> <p>Remedy:</p> <p>When an INFORMATION Code is output, see "INFORMATION Code" on page 135 and perform the remedy according to the code.</p> <p>When no INFORMATION Code is output, no error exists.</p>

INFORMATION Code

The INFORMATION code represents the status of the registered Discproducer. When multiple statuses exist, all corresponding codes appear.

Item	INFORMATION code	Description and Remedy
Printer	PP100API_HPR000	A printer fatal error has occurred. Remedy: Turn off the output device and turn it back on.
	PP100API_HPR001	A printer maintenance error has occurred. Remedy: Please contact the store where you purchased Discproducer or our customer service.
	PP100API_HPR002	The waste ink pads need to be replaced. Remedy: Please contact the store where you purchased Discproducer or our customer service.
	PP100API_HPR003	Communication with the printer has failed. Remedy: Check if the port setting on the printer driver is correct.
	PP100API_HPR005	The ink cartridge cover is open. Remedy: Close the ink cartridge cover.
	PP100API_HPR006	A printer maintenance error has occurred. Remedy: Please contact the store where you purchased Discproducer or our customer service.
	PP100API_HPR007	The maintenance box is not installed. Remedy: Install the maintenance box.
	PP100API_HPR008	Time to replace the maintenance box. Remedy: Replace the maintenance box with a new box.
	PP100API_HPR009	Cannot recognize the maintenance box. Remedy: Correctly install the maintenance box.
	PP100API_HPR010	The maintenance box cover is not placed correctly. Remedy: Check the status of the cover.

Item	INFORMATION code	Description and Remedy
Drive	PP100API_HDR000	Controlling the drive tray has failed. Remedy: (1) Turn Discproducer off and remove any foreign objects from the drive tray. (2) Turn Discproducer back on.
	PP100API_HDR001	Processing the job is impossible because of a fatal error of the drive. Remedy: Turn off Discproducer and turn it back on.
	PP100API_HDR002	The drive cannot be recognized; initialization cannot be performed on Discproducer. Remedy: (1) Check the connection status of the Discproducer's drive. (2) Turn Discproducer back on.
Auto loader	PP100API_HAR000	Picking up a disc from the drive tray or the printer tray has failed. Remedy: Turn off Discproducer and turn it back on.
	PP100API_HAR001	A disc is dropped while being picked up. Remedy: (1) Turn Discproducer off and remove the dropped disc. (2) Turn Discproducer back on.
	PP100API_HAR002	Releasing a disc has failed. Remedy: Turn off Discproducer and turn it back on.
	PP100API_HAR003	A disc should have been set in the drive tray or the printer tray; however, no disc is detected in the tray. Remedy: (1) Turn Discproducer off and remove any foreign object inside the machine. (2) Turn Discproducer back on.
	PP100API_HAR004	An error occurs while the robotic arm is moving. Remedy: (1) Turn Discproducer off and remove any foreign object inside the machine. (2) Turn Discproducer back on.
	PP100API_HAR005	An autoloader fatal error has occurred. The robotic arm cannot be moved due to overheating of the motor. Remedy: (1) Turn Discproducer off and remove any foreign object inside the machine. (2) Turn Discproducer back on.

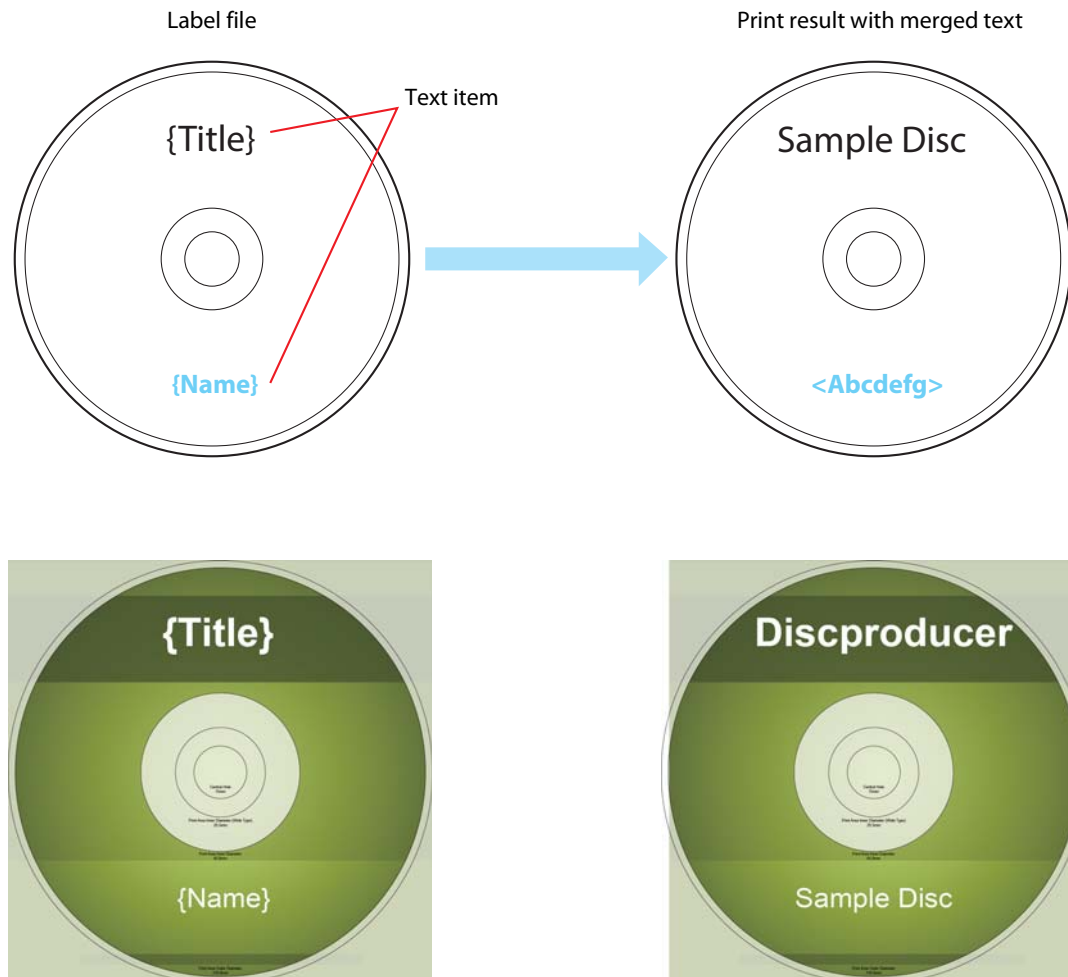
Item	INFORMATION code	Description and Remedy
Auto loader	PP100API_HAR007	Picking up a disc from the stacker has failed. Remedy: (1) Open the disc cover. (2) Separate any sticky discs in the source stacker from each other, and close the disc cover.
	PP100API_HAR008	Multiple discs have been transferred to the drive. Remedy: (1) Open the disc cover. (2) Remove the disc from the drive tray, and close the disc cover.
	PP100API_HAR009	Multiple discs have been transferred to the printer. Remedy: (1) Open the disc cover. (2) Remove the disc from the printer tray, and close the disc cover.
Cyan ink	PP100API_HIKC000	The cyan ink cartridge has been removed. Remedy: Install the cyan ink cartridge.
	PP100API_HIKC001	The model number of the cyan ink cartridge is different or the model number cannot be recognized. Remedy: Replace the cyan ink cartridge with a correct one.
Magenta ink	PP100API_HIKM000	The magenta ink cartridge has been removed. Remedy: Install the magenta ink cartridge.
	PP100API_HIKM001	The model number of the magenta ink cartridge is different or the model number cannot be recognized. Remedy: Replace the magenta ink cartridge with a correct one.
Yellow ink	PP100API_HIKY000	The yellow ink cartridge has been removed. Remedy: Install the yellow ink cartridge.
	PP100API_HIKY001	The model number of the yellow ink cartridge is different or the model number cannot be recognized. Remedy: Replace the yellow ink cartridge with a correct one.
Light cyan ink	PP100API_HIKLC000	The light cyan ink cartridge has been removed. Remedy: Install the light cyan ink cartridge.
	PP100API_HIKLC001	The model number of the light cyan ink cartridge is different or the model number cannot be recognized. Remedy: Replace the light cyan ink cartridge with a correct one.

Item	INFORMATION code	Description and Remedy
Light magenta ink	PP100API_HIKLM000	The light magenta ink cartridge has been removed. Remedy: Install the light magenta ink cartridge.
	PP100API_HIKLM001	The model number of the light magenta ink cartridge is different or the model number cannot be recognized. Remedy: Replace the light magenta ink cartridge with a correct one.
Black ink	PP100API_HIKBK000	The black ink cartridge has been removed. Remedy: Install the black ink cartridge.
	PP100API_HIKBK001	The model number of the black ink cartridge is different or the model number cannot be recognized. Remedy: Replace the black ink cartridge with a correct one.
Stacker 1	PP100API_HST1000	The number of discs in stacker 1 has exceeded the upper limit. Remedy: Remove discs so that the number of discs in stacker 1 falls within the limit.
	PP100API_HST1001	Stacker 1 has not been installed. Remedy: Install stacker 1.
Stacker 2	PP100API_HST2000	The number of discs in the stacker 2 has exceeded the upper limit. Remedy: Remove discs so that the number of discs in the stacker 2 falls within the limit.
	PP100API_HST2001	The stacker 2 has not been installed. Remedy: Install the stacker 2.
Stacker 3	PP100API_HST3000	The number of discs in the stacker 3 has exceeded the upper limit. Remedy: Remove discs so that the number of discs in the stacker 3 falls within the limit.
	PP100API_HST3001	Stacker 3 is set for the output stacker in standard mode and external output mode. However, stacker 3 is not installed. Alternatively, stacker 3 is not installed in batch mode. Remedy: Install the stacker 3.
	PP100API_HST3002	Stacker 4 is set for the output stacker in standard mode or external output mode. However, stacker 3 is installed instead. Remedy: [PP-100III/ PP-100NII] Remove stacker 3.

Item	INFORMATION code	Description and Remedy
Disc cover	PP100API_HDC000	The disc cover is open. Remedy: Close the disc cover.
Communication	PP100API_HNW000	Communication with Discproducer is disabled. Remedy: (1) Check the power supply of the Discproducer. (2) Check if the USB cable is securely connected. (3) Connect the output device, and turn on the power.
	PP100API_HNW001	A non-supported version error has occurred. Any of the following has been detected. (1) The firmware version of the autoloader is not supported. (2) The firmware version of drive 1 is different from the supported version. (3) The firmware version of drive 2 is different from the supported version. (4) The firmware version of the printer is not supported. Remedy: (1) Upgrade the firmware of the concerning device.

Merge Print Procedure

In merge print, text items of a label file are printed by being replaced using API.



Setting Procedure

Follow the procedure below to make the merge print.

Preparing a Label File

Set the text items in the label file to be replaced with text data for merge print. ([page 141](#))



Setting Character Strings to Be Printed

Call the API and specify the text items to be replaced with text data and the character strings to be printed. ([page 141](#))



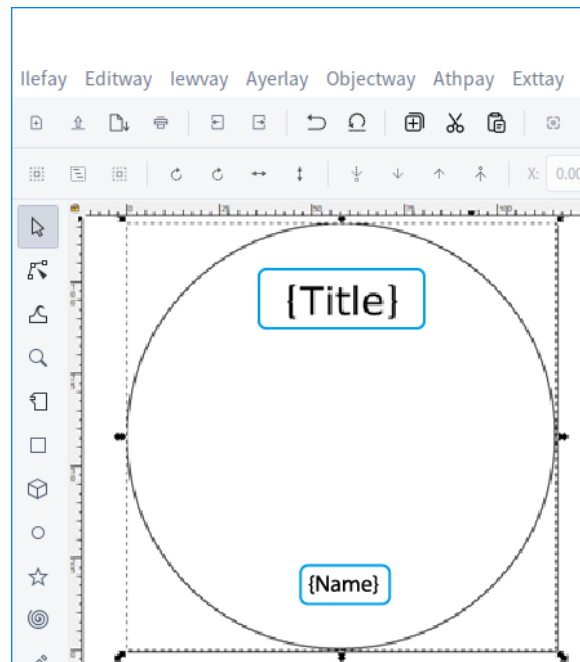
Publishing a Job

Call the API and publish a job. ([page 141](#))

Preparing a Label File

Set the text items in the label file to be replaced with text data for merge print. Edit the label files using Inkscape. (File format: SVG)

Enclose the character string with "{}". The character string enclosed with "{}" is regarded as a text item to be replaced with text data for merge print. (Example: Title -> {Title}, Name -> {Name})



NOTE

- Edit the font size, type and color. These settings will be applied to the text to be merged.
- The text size will not be automatically adjusted. Make sure that all the characters to be printed are included and displayed in merge print.

Setting Character Strings to Be Printed

Call the API and configure the merge print settings. Specify the text items to be replaced with text data for merge print and the character strings to be printed.

- For the structure [PP100_REPLACE_FIELD_TEXT](#), specify the text items and the character strings to be printed. ([page 121](#))

Properties	Explanation
pName [1025]	Text item name set in the label file to be replaced with text data for merge print. (Example: Title, Name)
pValue [1025]	Character string to be printed (Example: Sample, Abcdefg)

- Call [PP100_SetReplaceFieldText](#). ([page 109](#))

Publishing a Job

Call [PP100_SubmitJob](#) and publish a job with the specified merge print settings. ([page 75](#))

Multisession Burning Function

Function Overview

The following explanation contains examples when using a video management system. Video data received during filming is collected from time to time by the video management system. The video management system sends video data to the publishing terminal at regular intervals. The cooperative application on the publishing terminal writes the received data.

In previous versions, writing could not be started until all the data to be written to the disc was available. However, the Multisession Burning Function added in version 8.0 allows writing/comparing to be individually performed for each piece of data received. This speeds up disc completion and reduces the risk of data tampering.

Compatible models:	PP-100III, PP-50II
Compatible media:	CD-R, DVD-R, BD-R, BD-R DL, BD-R XL 100, BD-R XL 128 (DVD+R, DVD-R DL, DVD+R DL cannot be used.)
Compatible formats:	UDF1.02
Maximum number of sessions:	99

Example time chart

Disc-at-once

	Elapsed time												
		15		30		45		60		75		90	
Surveillance camera													
Video file	MP4-1		MP4-2		MP4-3		MP4-4						
Disc 1								Label data	MP4-1	MP4-2	MP4-3	MP4-4	Printing
Disc 2								Label data	MP4-1	MP4-2	MP4-3	MP4-4	Printing

Perform writing/comparing in batches

Multisession

	Elapsed time												
		15		30		45		60		75		90	
Surveillance camera													
Video file	MP4-1		MP4-2		MP4-3		MP4-4						
Disc 1		Label data	MP4-1		MP4-2		MP4-3		MP4-4	Printi ng			
Disc 2		Label data	MP4-1		MP4-2		MP4-3		MP4-4	Printi ng			

Perform writing/comparing for each batch of data

Timeout Processing

When a multisession burning job is initiated by executing PP100_SubmitSession:

Disc format	Behavior	Recording side	Label
When PP100_SubmitJob is called after registering data from the last PP100_SubmitSession call	Ejection	Discs writing prohibited	Printing
When PP100_SubmitJob is called without registering data from the last PP100_SubmitSession call	Ejection	A session without any data is added to the end of the disc, and additional disc writing is prohibited.	Printing
When PP100_SubmitJob is not executed and the timeout period has elapsed	When the timeout period elapses, the corresponding job is canceled, label printing is not performed, and the job is ejected to the error stacker.	Additional disc writing is possible.	No printing
When PP100_SubmitJob is not executed and the timeout is disabled (PP100API_NOT_TIMEOUT)	Enters into permanent standby. Manual cancellation is required to eject from the drive.	Additional disc writing is possible as long as the last session writing has been completed.	No printing

Troubleshooting

This chapter explains how to handle troubles.

Log

For details on how to obtain log files, see ["Function for Obtaining Logs" on page 38](#).

The following personal information is not output in the log.

- Device name set in Total Disc Setup
- Computer name
- Login user name
- File name, folder name, type, and content of the data on the recording side
- Image, file name, folder name, and merge text on the label side
- Other character strings that can be freely set by the user

Installation of Dependent Library

When the required dependent library is not installed, install it manually.

For details on the required dependent libraries, see ["Dependent Library" on page 10](#).

Example

```
# yum install inkscape
```


Appendix

Comparison with Windows

Item		Linux	Windows
Character string		char type, UTF-8	wchar_t type, UTF-16
calling convention		gcc default	_stdcall
Label image		SVG, PNG, JPEG	TDD, PNG, JPEG
Label editing		Inkscape	Total Disc Maker
Merge print		SVG is required. Font size is fixed. Barcodes not supported. Text only.	TDD is required. Font size is auto-scaled. Barcodes supported. Both text and binary supported.
Data type		File, Folder, ISO	File, Folder, ISO, Indirect File
Disc type	Data	CD/DVD/BD	CD/DVD/BD
	Music	Unavailable	CD,DVD-Video
Data format		ISO9660, UDF1.02, UDF2.60	ISO9660, UDF1.02, UDF2.60, UDF Bridge,UDF1.50
Music		Unavailable	Available
Video		Unavailable	Available
Measurement		Unavailable	Available
Archive disc		Unavailable	Available
Plug-in job		Unavailable	Available
Interface	Publish	PP-100 API+Sample Soft	Total Disc Maker, TD Bridge
	Monitor	PP-100 API+Sample Soft	Total Disc Monitor,Status.txt
	Setting	Total Disc Setup for Linux	Total Disc Setup
Supported Discproducer model	PP-100III	Available	Available
	PP-50II	Available	Available
	PP-100N	Unavailable	Available
	PP-100NII	Available*	Available

* Supported on TD Bridge for Linux Ver.2.5.0 and later.

Dependent Library Check

Dependent library	License
libpng1.6.x	Libpng
libusb1.0.x	LGPL2.1
Inkscape	GPL
imagemagick/	Imagemagick (Apacche?)
GraphicsMagick	MIT
Qt5	LGPL v2.1+ Nokia Qt LGPL Exception version 1

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3. Qt 5.5.1 -- LGPL version, LGPL-2.1-or-3 with Qt-1.1 exception
4. RFC 3174 (SHA1) -- RFC 3174 - US Secure Hash Algorithm 1 (SHA1)
5. libmd 1.0.4(include/md5.h+src/md5.c) -- Public Domain
6. libmd 1.0.4(include/sha1.h+src/sha1.c) -- Public Domain
7. libmd 1.0.4(include/sha2.h+src/sha2.c) -- BSD 3-Clause "New" or "Revised" License

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A "png_get_copyright" function is available, for convenient use in "about" boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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February 14, 2013

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