### COBISS<sup>®</sup>

Co-operative Online Bibliographic System & Services

# VIF – Maintenance of computer systems infrastructure

### Metapace L-42DT User Guide VIF-NA-BG-128, V2.0

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### **1** Introduction

The document demonstrates how the printer is used when working in the COBISS system (installing and connecting the printer, printer maintenance – replacing paper and ribbon, etc.).

#### 2 Using the Metapace L-42DT printer

#### 2.1 List of equipment

Basic equipment:

- printer (blue-grey, white)
- CD containing software, drivers and user manual
- USB cable (or another cable)
- AC adapter
- Power cord (220 V)
- Ribbon core

Optional additional equipment:

- external label holder
- knife
- label peel-off module

#### 2.2 Printer description



Figure 1: METAPACE L-42DT printer – outside

- 1. Clear plastic ribbon cover
- 2. Cover lever
- 3. FEED/CANCEL button for moving the label ribbon or aborting the operation
- 4. PAUSE button to pause printing



**Figure 2: Printer – inside** 

- 1. Cover for accessories
- 2. Rubber roller
- 3. Lower gap sensor (receiver)
- 4. Paper holder
- 5. Paper fix tool
- 6. Paper cover
- 7. Printer head
- 8. Upper gap sensor (transmitter)

9. Black mark and notch sensor



Figure 3: Printer back view – cable connections

- 1. Power connector
- 2. RS232C serial cable (to connect to computer)
- 3. USB-A interface (only to connect to wireless network interface)
- 4. Network interface (to connect to local network)
- 5. USB-B interface (to connect to computer)

#### 2.3 Getting the printer ready

#### **Ribbon installation**

1. Open the paper cover and insert the ribbon by placing it to the spring fastening first (right).



2. Open the clear plastic ribbon cover by pulling in the direction indicated by the arrow on the cover and insert the core.



3. Insert the ribbon and attach it to the core.



- 4. Use the cog to apply the blank part of the tape to the coiling portion of the ribbon.
- 5. Close both the ribbon cover and the paper cover.

#### Label installation

1. Use the buttons on both sides of the printer to open the paper cover.



2. Spread the paper holder and insert label roll.



3. When inserting the label roll, also push the end of the label roll under the label roll guides.



4. Close the paper cover.

#### 2.4 Connecting and installing the printer

There are four ways to connect the METAPACE L-42DT printer and get it ready to work. To connect it to the computer, use the USB-B cable (enclosed) or the serial cable. To connect it to the network, use the network cable (RJ45). To use the printer with several workstations, it is recommended to connect it to the local network.

When installing the printer, use the drivers available:

- on the enclosed CD or
- at the following link: <sup>1</sup><u>http://vbbghome.bg.cobiss.net/preporuki\_za\_oborudvane/</u>

The printer has two buttons: FEED/CANCEL and PAUSE, as well as two tricolour LED indicators. The LED indicators indicate different operation modes and also signal errors. Use the FEED/CANCEL button to move labels forward and start testing, calibration and configuration (factory default settings). Use the PAUSE button to pause printing.

If you need help when using the printer, call the call centre (02/2520 333) or send an e-mail to podpora@izum.si.

#### 2.5 **Printer operation**

#### 2.5.1 Manual settings

To change settings, use the FEED/CANCEL and PAUSE buttons and observe the LED indicators:

Printer state	Button			Printer operation	
before operation	FEED/ CANCEL	PAUSE	Operation procedure	mode	
Power OFF	Press	-	Turn printer on. Hold the button until printer starts self-test printing.	Self-test Printing Mode	
Stand by	Press	-	Press the button and release immediately.	Feed Mode	
Stand by	-	Press	Press the button for two seconds.	Entry to Configuration Mode	
During printing	Press	-	Press the button for two seconds and continue to hold.	Print Cancel Mode	
During printing	-	Press	Press the button and release immediately.	Print Pause Mode	

<sup>&</sup>lt;sup>1</sup> <u>http://www.seagullscientific.com/drivers/printer-driver-features/?m=metapace+l-42dt</u>

LED 1		LED 2		Printer Status	
Colour	Status	Colour	Status		ici Status
Green	On	Green	On	Standby mode	Standby mode
Red	On	Red	On	Error mode	Ribbon is not detected
Red	On	Orange	On	Error mode	Labels – gap not detected
Red	On	Green	Blink	Error mode	Printer head overheating
Red	On	Red	Blink	Error mode	Paper cover open
Red	On	Orange	Blink	Error mode	No labels
Red	On	-	Off	Error mode	Media calibration failure
Red	Blink	Red	Blink	Error mode	Auto-Cutter error
Orange	On	Orange	On	Warning	Switch settings
Green	Blink	Red	On	Wait for input	Print is paused temporarily.
Green	Blink	Green	Blink	Wait for input	Cover Close Mode
Green	On	Red	Blink	Wait for input	Print Cancel Mode

#### 2.5.2 Printer and LED indicator status

#### 2.5.3 Label Utility tool

The Label Utility tool can be found on the enclosed CD. Use it for the following functions:

- 1. serial communication settings (HandShake, Stop bit, Data bit, print rate),
- 2. basic printer settings (paper size, printing speed and density, paper type, use of ribbon),
- 3. language settings (code tables),
- 4. media sensor calibration (manual settings for materials), and
- 5. other.

More tips can be found on the enclosed CD in the United Label Printer Utility Manual ("Metapace\_Label\_Unified\_Utility") in the "Utilities" folder.

#### 2.5.4 Media calibration

The printer has been designed to recognise gaps between labels automatically. In order to do so, it will use up three labels when it prints for the first time. If it still does not recognise the gaps, the calibration function must be activated manually. During this procedure, the printer will:

- 1. adjust the label detection sensor and measure the actual length of the label;
- 2. adjust the gap detection sensor and measure the actual gap length between labels.

Media calibration is required when the printer is installed for the first time, when changing the label format and when the printer does not print in the designated printing space (print positioning is off).

How to run media calibration:

- 1. Enter manual calibration mode: when the printer is on, hold the PAUSE button for two seconds. Both LED indicators change colour from green to orange.
- 2. The colours of the LED indicators start to change and the required operation (i.e. calibration) is started when pressing the FEED button (LED 1 is orange, LED blinks green four times).

To learn more about calibration, consult the original user manual, chapter "5. Detailed features", page 20.

#### 2.5.4.1 Media calibration with the use of the enclosed tool

Procedure:

- 1. Connect the printer via the desired interface (serial, USB or Ethernet).
- 2. Run "Unified Label Utility-II.exe" from the enclosed CD or download it from the website<sup>2</sup>.
- 3. Select the installation interface and click the "Connect" button.

© Cardal		User Setting
9 Serial	Parallel USB Ethernet	Configure Printer Setting
mmunication	Setting	Configure Print Quality
PT Port	LPT1:	Calibration Setting Manager
OM Port		Downloader
John Fort		PCX File Downloader
Baud Rate	115200 💌	Printer Tool
)ata Bits	8 🔹	Send File
Parity	None	Printer Tool
Stop Bits	1	Communication Tool
Р	192 . 168 . 100 . 185	SLCS Test Tool
		RFID
'ort	9100	Set Configuration Write/Read
C	onnect Disconnect	
		EXIT

Figure 4: Unified Label Utility-II tool

<sup>&</sup>lt;sup>2</sup> http://www.jarltech.de/2007/support.php?gotoartikel=metapace\_l-

 $<sup>42</sup> dt \& sort = kategorie \& language = en \& kat_id = 2200 \& link = 2 \& support data = metapace_l - 42 dt - en \& language = en \& kat_id = 2200 \& link = 2 \& support data = metapace_l - 42 dt - en \& language = en \& kat_id = 2200 \& link = 2 \& support data = metapace_l - 42 dt - en \& language = en \& kat_id = 2200 \& link = 2 \& support data = metapace_l - 42 dt - en \& language = en \& kat_id = 2200 \& link = 2 \& support data = metapace_l - 42 dt - en \& language = en \& kat_id = 2200 \& link = 2 \& support data = metapace_l - 42 dt - en \& language = en \& language$ 

#### 2.5.5 Network configuration with the use of the enclosed tool

Procedure:

1. Connect the printer via the Ethernet interface.

Run "Net Configuration Setup" from the enclosed CD or download it from the website <u>http://vbbghome.bg.cobiss.net/preporuki\_za\_oborudvane/</u>.

2. Run the software and click the "Ethernet Configuration" button.

<i>@</i>	Net Configuration
	Ethernet Configuration
	WLAN Configuration
	Serial/USB Configuration (For mobile WLAN)
	Exit

Figure 5: Net configuration tool

3. Click the "Search" button. If the printer and the computer with the installed tool are in the same local network, the program will detect the printer. It will appear in the list with the corresponding Mac address. The Mac address can be found on the label on the back of the printer.

			Net Configu	ration Tool			×
No	Mac Address	IP Address	Subnet	Gateway	Port	Version	Search
1	00:15:94:60:3e:56	10.1.10.209	255.255.0.0	10.1.0.1	9100	N/A	
							Setting
							Configuration(Web)
							Exit
			1				



4. Select the printer and click "Setting". The window containing the net configuration will appear. You will receive the data for the printer from the local network administrator.

Ether	net Configuration	×
Network Setting		
IP Address :	10 . 1 . 10 . 209	
Subnet Mask :	255 . 255 . 0 . 0	
Gateway :	10 . 1 . 0 . 1	
Local Port :	9100 (0 ~ 32767)	
Inactivity time :	0 sec (Default: 0)	
(0 ~ 3600)	DHCP Mode	
Device Baudrate :	19200 🔻	
Fimware Version :	N/A	
Save	Cancel	

- 5. Install the printer drivers<sup>3</sup> and restart the computer.
- 6. In the Control panel under Devices and printers select Add a printer by using an IP address.

Find a printer by i	name or TCP/IP add	ress	
<u>Find a printer in the</u>	directory, based on locatio	on or feature	
Select a shared print	ter by name		
			B <u>r</u> owse
Example: \\com http://computer	putername\printername o rname/printers/printernam	r ne/.printer	
Add a printer using	a TCP/ <u>I</u> P address or hostn	ame	

7. Enter the IP address into the "Hostname or IP address" field.

<sup>&</sup>lt;sup>3</sup> <u>http://www.seagullscientific.com/drivers/printer-driver-features/?m=metapace+l-42dt</u>

-	70 J.J.	
Type a printer hostnan	he or IP address	
Device <u>t</u> ype:	Autodetect	•
Hostname or IP <u>a</u> ddress:	10.1.10.209	
<u>P</u> ort name:	10.1.10.209_1	
<b>Query the printer and auto</b>	matically select the driver to use	

Figure 8: Entering network parameters

8. Confirm additional port information.

Additional por	information required
The device is not	found on the network. Be sure that:
1. The device is	turned on.
<ol> <li>The network i</li> <li>The device is</li> </ol>	s connected. properly configured.
4. The address of	n the previous page is correct.
If you think the a address and perf device type below	ddress is not correct, click Back to return to the previous page. Then correct the orm another search on the network. If you are sure the address is correct, select the w.
Device Type	
Standard	Generic Network Card 🗸
Standard	

9. Select the manufacturer METAPACE and the printer model L-42DT.

Install the printer driver Choose your printer from the I To install the driver from an install	ist. Click Windows Update to see more models. stallation CD, click Have Disk.
Manufacturer Lexmark METAPACE Microsoft NRG OL: This driver has an Authenticode(tm Tell me why driver signing is impor	Printers  METAPACE L-23D  METAPACE L-42D  METAPACE L-42D  METAPACE L-42T  METAPACE L-42T  Merrapace L-42D  signature. <u>W</u> indows Update <u>H</u> ave Disk tant  Next Cance
Figure	10: Selecting the driver

10. Check if the driver was installed successfully by printing a test page.

eneral Sharing Ports Advanced Color Management Se
METAPACE L-42DT       ocation:       Comment:
ocation:
comment:
A <u>o</u> del: METAPACE L-42DT Features Color: No Paper available:
Staple: No
Speed: Unknown Maximum resolution: 203 dpi
Pr <u>e</u> ferences Print <u>T</u> est Page

#### 2.5.6 Uploading images (library logo) to the printer

Procedure of uploading images to the printer:

- 1. Run "Unified Label Utility-II.exe" from the enclosed CD or download it from the website<sup>4</sup>.
- 2. Select the installation interface and click the "Connect" button.

<sup>&</sup>lt;sup>4</sup> http://www.jarltech.de/2007/support.php?gotoartikel=metapace\_l-

<sup>42</sup>dt&sort=kategorie&language=en&kat\_id=2200&link=2&supportdata=metapace\_1-42dt-en

terface Type		User Setting
🔘 Serial	🔘 Parallel 🛛 🔘 USB 🔘 Ethernet	Configure Printer Setting
ommunication	Setting	Configure Print Quality
LPT Port	LPT1:	Calibration Setting Manager
		Downloader
COM Port	COM1:	PCX File Downloader
Baud Rate	115200	
Data Bite	•	Printer Tool
	0	Send File
Parity	None	<ul> <li>Printer Tool</li> </ul>
Stop Bits	1	- Communication Tool
	10 1 10 200	SLCS Test Tool
IP	10 . 1 . 10 . 205	REID
Port	9100	Set Configuration Write/Read
0	Connect Disconnect	EXIT

Figure 13: Unified Label Utility-II tool (image is symbolic)

3. Click the "PCX File Downloader" button and a new window will open:

PCX File Downloader	
Image Store (IS)	
Image Name :	
PCX File Information	
File Name: None	
File Size. U Byle	
DownLoad	
Image Delete (ID)	
Image Name :	
Delete Image Delete All Images	
Image Information (II)	
Image Information	
Image Recall (IR)	
Image Name :	
X Position : 0 Y Position : 0	
Image Recall CLOSE	

Figure 14: PCX File Downloader (Unified Label Utility-II)

4. Find and select the desired image file (\*.pcx) and click "Download".

Deleting images: Instead of the "Download" button, use the "Delete Image" button.

#### **3 Printing preferences (for COBISS3 purposes)**

Once the printer driver is installed, you have to update the settings on the METAPACE L-42DT before you can start printing labels. To do so, go to **Control panel** and select **Devices and Printers**. All available printers will be displayed. Select the METAPACE L-42DT printer and right-click on it. From the additional options, select the **Printing preferences** option. On the first tab (Page Setup), set up the label format by clicking **New** and entering the desired label format (e.g. *USER (60.0 mm x 40.0 mm)*) that you can then set up as the default format (**Error! Reference source not found.**).

Page Setup Stock <u>N</u> ame:	CE L-42DT on Uselab Pr Graphics Stock Opt USER (60,0 mm x 40,0 m New	inting Preferences ions About nm) <u>E</u> dit	Delete
Preview ALE	Orientation <u>Portrait</u> <u>Landscape</u> <u>Portrait</u> 180 <u>Landscape</u>	Effects	or Image la <u>t</u> ive
N <u>a</u> me:	Current Settings>		<u>M</u> anage Options
	Authors of the BarTe	nder® label software.	Help

Figure 15: Setting the label format (New, USER (60,0mm x 40,0mm))

If you click **Advanced Options...**, you can set up the start printing position and re-adjust the printout position on the label. Ideally, the starting position is 0.0 mm, 0.0 mm (**Error! Reference source not found.**).



Figure 16: Printing position settings (Horizontal Offset, Vertical Offset)

Use the second tab (Graphics) to set Dithering to None (Error! Reference source not found.).

METAPACE L-42DT on Uselab Printing Preferences					
Page Setup Graphics Stock Options About					
Resolution: 8,0 dpmm x 8,0 dpmm					
Dithering					
None					
Halftone					
Device Dithering					
Color Adjustment Dithering Setup					
Color					
Color Matching:					
Color Registration Color Setup					
OK Cancel Apply Help					

Figure 17: Print settings (Graphics, Dithering)

Use the third tab (Stock) to set the Print Method and Thermal Transfer (Error! Reference source not found.).

Feed Mode         Mode:       Use Current Printer Setting ▼         Pause:       No Pause         Interval:       1         Feed Options         Set Top Adjustment:

Figure 18: Media settings (Print Method, Thermal Transfer)

Use the fourth tab (**Options**) to activate the option of pronounced printing (**Darkness**) nad printing speed (**Speed Settings**). Set darkness to 15 and the speed settings to 76.20mm/sec (**Error! Reference source not found.**).

Darkness	urrent Printer Settings
Speed Se	ttings urrent Printer Settings
<u>P</u> rint:	76.20 mm/sec 👻
<u>S</u> lew:	
<u>B</u> ackfeed	
Graphics ( Encoding:	Dptions Automatic

Figure 19: Print Options Settings (Darkness, Speed Settings)

The Seagull driver was used: <u>http://www.seagullscientific.com/drivers/printer-driver-features?m=metapace+l-42dt</u> (Error! Reference source not found.).



## 4 Setting up logical destinations in COBISS3 software

In COBISS3, firstly select the printer you will be using for printing labels for material from the logical destinations. Select **System / Settings / Logical destinations** (**Error! Reference source not found.**).

SCOBISS3 [izum - sys_rokh]	and the state of the local data		
Sistem Razred Objekt Delo	vno področje Poizvedbe Bližnjice Pomo	5	
Nastavitve	Nastavitev pisave		
Urejevalnik izpisnih vrst	Uporabniške destinacije	Delovno področje	Atributi razreda
Segment Izpisi	Logične destinacije		Ime atributa Vrednost
Lokalni šifranti	Osebni imenik	cije	
Urejevalnik opravil	radius		
Sporočilo vsem uporabnikom	a da a d		
Preberi zadnje sporočilo			
Pošiljanje pripomb			
Osveži nastavitve			
Prikaži napake na strežniku			
Test mreže	-		
Izhod			
		Bliznjice	Povezave
Poizvedbe			
1 Olzvedbe			

#### Figure 21: COBISS3 user interface

The Logical destinations editor window will open, where you select the option *Label – material: [default local printer]* and click the Edit button (Error! Reference source not found.).

Urejevalnik logičnih destinacij		×			
Logične destinacije:					
Nalepke - Nabava: [privzeti lokalni tiskalnik]					
Nalepke - MI: [privzeti lokalni tiskalnik]					
Nalepke - Partner: [privzeti lokalni tiskalnik]					
Dobavnica - MI: [privzeti lokalni tiskalnik]					
Interno naročilo - MI: [privzeti lokalni tiskalnik]					
Porazdelitev - Nabava: [privzeti lokalni tiskalnik]					
Nalepka - gradivo: [privzeti lokalni tiskalnik]					
Nalepka - gradivo 50x25: [privzeti lokalni tiskalnik]					
Nalepka - gradivo 75x50: [privzeti lokalni tiskalnik]					
Uredi Privzeto (opis)	V redu	Prekliči			

Figure 22: Logical destinations editor

The User destinations window will open, where you click the Add printer button. In the new window, select the *METAPACE L-42DT* printer, with which you will print labels for material, from the drop-down list (Error! Reference source not found.).

Uporabniške destinacije		×
Destinacije:		
		Dodaj e-naslov
		Dodaj tiskalnik
		Iz osebnega i
		Uredi
		Odstrani
1	V redu	Prekliči
Tiskalnik		x
Tiskalnik:	METAPACE L-42DT	-
Število kopij:	1	
Podrobnosti	V redu	Prekliči

Figure 23: Setting up logical destinations

Once you select the printer, click the **Details** button to check if the detailed settings for this type of printer are correct (**Error! Reference source not found.**):

Podrobnosti		-	X	<u> </u>
Način tiskanja:	grafiò	źni		-
Vrsta tiskalnika:				•
Podvrsta tiskalnika:				•
Stil tiskanja:	enost	transko		•
Usmerjenost:	pokončno			•
		V redu	Prekliči	

**Figure 24: Detailed settings** 

When you define all the settings, confirm each selection by clicking the **OK** button. Finally, select **Refresh settings** in the **System** menu (**Error! Reference source not found.**). If this option is not available, refresh all new settings by logging out and then re-logging into the COBISS3 software.



Figure 25: Refresh settings in the COBISS3 user interface