CalSAWS

CalSAWS Reception Receipt Printer Setup Guide

Zebra Setup Utility

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Zebra Browser Print Installation and Configuration

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Prerequisites

The prerequisites below must be reviewed before completing the utility and browser print installation.

Printer Installation

The Zebra receipt printer needs to be installed by the appropriate managed or nonmanaged county protocol:

- Managed County: For managed counties a <u>ServiceNow</u> ticket will be submitted, and a remote tech will be dispatched for installation.
- Non-managed County: For non-managed counties a local county IT person should be dispatched for installation.

Network Connected Printers

If your office is using network attached printers, the printer should be powered on and connected to the network with an ethernet cable.

IP Address Configuration

The IP address of the printer should be set with a DHCP reservation. The MAC address to use for the reservation is listed on the bottom of the printer labeled as "EN". IMPORTANT: The IP address of the printer must be in the same VLAN as the workstation.

To confirm the IP address is assigned to the correct printer, use the steps below to print a configuration label:

- Verify the status light is solid green.
- Press and hold the Feed button.
- The status light flashes once, and the button can be released.

Once the IP address has been set, <u>label the printer with the IP address and designated</u> <u>network jack</u>. This is critical in identifying which printer users will choose during the Zebra Browser Print configuration.

USB Connected Printers

If your office is using USB attached printers, the printer should be powered on and connected to the workstation with a USB cable. From the Windows Taskbar, click "search" then type "printers & scanners", you should see the Zebra <ModelNumber> connected in the device list.

Required Software Downloads

- <u>Zebra Setup Utilities</u>
- Zebra Browser Print

Configurations

These instructions will guide you through installing the Zebra Browser Print utility. This setup allows any user that logs in to the workstation to use the receipt printer.

Workstation Configuration

1. On each workstation, launch the Zebra Setup Utilities and the System Prepare Wizard window will open.

System Prepare Wizard			×
Preloading Drivers Application needs to p	reload driver package to your system	/	
Printer drivers drivers that are used to comm preloaded driv	that are pre-loaded on the system e included with this application. T unicate with the printer. Follow th ers.	n are older than the l'hese drivers will be he Wizard to update the	
Help	Cancel	< Back Next >	Finish

 Click Next and two new options named USB and Other computer ports will appear. If the printer is connected by USB select USB and press Next. If the printer is connected over the network, select Other computer ports then press Next and Finish. Skip to step 4 to complete network setup on printer.



3. The printer will be automatically detected and show in Zebra Setup Utilities. Otherwise, you'll be prompted to try a manual install. If a manual install is needed, click the **Manual Install** button to complete the process.



4. A new PrnInst window will open. Press **Next** and another window will open with an **Install Printer** option.



5. Select **Install Printer** to move to the next window and select the printer model from the list (Zdesigner GK420d or Zdesigner ZD421d). Once the printer model is selected press **Next**.

PrnInst - Selecting the printer	
Select Printer Please select the manufact	arer and printer you want to install.
Select the manufacturer and mod <change location="">. You can also key while selecting printers.</change>	lel of your printer. If the driver is in a different folder click o choose to install multiple printers at once, using the CTRL
Manufacturers:	Printers:
ZDesigner	ZDesigner GK420d ZDesigner GK420d (EPL) ZDesigner GK420E (EPL) ZDesigner GK420E (ZPL) ZDesigner GK420t (EPL) ZDesigner GK420t Plus (EPL) ZDesigner GK420t Plus (ZPL) ZDesigner GK888d
	Change location
	Exit Help < Previous Next >

- If connected by network, skip to step 8.
 If connected by USB, select USB00# from the available ports list then press Next.

ist options			
Printer Options			
Please select port, p	inter name and language.		S.
Enter the name for your pr done, select <next> to ins</next>	inter. Also, select the port stall the printer and add an	your printer is co icon to the Prin	onnected to. When you are ters folder.
Driver version:	5.1.16.7398		
Printer name:	ZDesigner GK420d		
Available ports:			
LPT2:		^	Add Port
LPT3: DOD TODOMOT			
SHRFAX:			Delete Port
USB001			
USB002		~	
	minter on the Mindews d	fault aristar	
I want to use this	printer as the windows de	erauit printer.	
Select language:	English		\sim
	Exit	Help	< Previous Next >

7. Uncheck both boxes on the next window, then press Finish.

Additional Install (Please choose if	Options you want to install a	ny of the following	g applications.	Ð
Launch installation of	of Zebra Font Downlo	ader Setup Wiza	ard	
Launch installation of	of Zebra Status Moni	or Setup Wizard		
Setup will launch Zebra Zebra Font Downloader printers. If you want to l zebrafd.exe	Font Downloader Se rand Zebra Status M aunch the installation	etup Wizard or Zi onitor are applica later just run the	ebra Status Monitor S ations which will simp m in the driver install	ietup Wizard. Ny the use of ation folder

8. If connected over the network press **Add Port** and another window will open. Fill in the fields according to **IMAGE #** and then press **OK**. Select the newly made **LAN_NETWORK NAME** from the **Available Ports** list then press **Next**, uncheck both boxes on the next window, and then press **Finish**.

Advanced TCP/	IP Port Config	guration		>	$\langle $
Port Name Name: L	AN_NETWO	RK NAME			ou a
TCP/IP Data					
Port Number:	or IP Address:	9101			
			ОК	Cancel	
LPT2:			Ŷ		
I want to u	se this printer a	is the Windows d	efault printer.		

9. From the Zebra Setup Utilities Dashboard, select the printer that you just installed and click **Configure Printer Settings**.

a Zebra Set	up Utilities 📃 🗖 🗙
Printers The list below displays installed printers. To configure a prin	nter, select it and choose one of the configuration options below.
ADFReceipt LANL CK422D	Install New Printer Uninstall Printer Refresh Printer List
Printer Configuration ————————————————————————————————————	
Configure Printer Settings	Mownload Fonts and Graphics
Configure Print Quality	Copen Printer Tools
Configure Printer Connectivity	Open Communication With Printer
General Operations	
😧 Help	Deptions Close

- 10. The Printer Settings Wizard will be started. Refer to the following images for the configuration options recommended by the C-IV Project for optimal performance. Modify the values appropriately, then click Next between screens. (Based on configuration of the device settings the orientation may need to be changed to its default settings) Follow through the visual prompts below
 - 10.1 Populate the units, width and height with the configurations below. (If the prints are cut off of the receipt increase the width by increments of 2 until optimal visibility)

	Printer Settings	Wizard	X
Label Parameters Define label width,	label height and orientation.		
123	<u>U</u> nits <u>W</u> idth: <u>H</u> eight: <u>O</u> rientation:	inch 3.12 2.25 Inverted 180 degrees	♥ inch inch
	Firmware version:	V61.17.17Z	
Help	Cancel	< Back Next >	Finish

10.2 Populate the speed and darkness with the units below

	Printer Settings Wizard	x
Speed and Darkness Select speed and darkness.		
	<u>S</u> peed: <u>5.0</u> v "/s <u>D</u> arkness: 15 v	
Help	Cancel < Back Next >	Finish

10.3 Populate the Media Type, Tear Off Adjust and the Label Shift with the configurations below. (Make note of the checked boxed below)

	Printer Settings Wizard
Media Set media parametera	and handling.
	Media <u>Type:</u> <u>Continuous</u> <u>T</u> ear off adjust: 0.00 inch Label <u>S</u> hift: 0.00 inch
To configure advance Continue wizard w	f settings, check the box below. ith advanced settings
Help	Cancel < Back Next > Finish

10.4 Populate the media handling, Media feed options, Backfeed, and ZPL Mode. With the configurations below

	Printer Setting	Wizard	x
Advanced settir Configure adva	ngs nced settings for your printer.		
	Media <u>H</u> andling	Tear Off V	
123	<u>M</u> edia feed options B <u>a</u> ckfeed:	Feed to Next Label V Default settings V	
	ZPL Mo <u>d</u> e:	☐ Mirror Image ZPL II	
Help	Cancel	< Back Next > Finis	۱

10.5 This step requires no configurations

	Printer Settings Wizard
Real Time Clock Set real time cloc	k parameters.
	 Set Real Time Clock Set Real Time Clock To Computers Clock
X	○ Set Real Time Clock To: 2/28/2017 9:15:25 AM
Help	Cancel < Back Next > Finish

10.6 Be sure that all boxes are checked, however this step requires no configurations

	Printer Settings Wizard	x
Front Panel Protection Define panel parameters you	I want to protect.	
	 Enable Darkness Mode Enable Position Mode Enable Calibration Mode Enable Pause Enable Feed Enable Cancel Enable Menu Changes 	
Help	Cancel < Back Next >	Finish

10.7 This step requires no configurations

	Printer Settings Wizard	x
Sensor Settings Set media senso	18.	1
Enter a value to during the med	change the sensor settings. Leaving a field empty will use the value set lia calibration process.	
	Media Sensor (m/b): Range: 0 to 100	
	Iransmissive Gain (m2): Range: 0 to 255	
	Mark LED (c): Range: 0 to 255	
	Mark Ga <u>i</u> n (a): Range: 0 to 255	
	<u>R</u> ibbon Sensor (r): Range: 0 to 100	
	Ribbon <u>G</u> ain (r2): Range: 0 to 255	
Help	Cancel < Back Next > Finish]

10.8 This step requires no configurations

Printer Settings Wizard	x
Save settings By pressing Finish your printer and driver will be updated.	
To save your settings to a file on your computer, check the box below.	
Save settings to File	
Help Cancel < Back Next > Finish	

11. Click Finish.

Zebra Application Print Configurations

The following configuration steps will configure the Zebra Printer for receipt printing from the C-IV reception log.

1. Open Devices and Printers and find the "ZDesigner <ModelNumber>" printer. Right click on the printer again and select **Printing Preferences**.

Devices and Printers	
← → × ↑ 巻 > Control Panel > Hardware and Sound > Devices and Printers	✓ U Search Devices and P
Add a device Add a printer See what's printing Print server properties Remove device	
Devices (1)	
5CD6150RM8	
Printers (6)	
Fax Microsoft Print Io Microsoft XMS Send To OneNote Sought 11	
FOF DOCUMENT WHEN TO GRAZUU	
✓ Set as default printer	
Printing preferences	
Printer properties	
ZDesigner GK420d State P Default State Create shortcut	
Model: ZDesigner GK420d	
Colores Dista	

2. On the Options tab, check the box for rotate 180 degrees and verify that the Width and Height are set as shown. Click **OK**.

Barc	code Font	S		Command Fonts				
Custom Comn	nands	Impo	rt/Export	settings	To	ols	About	
Options A	dvanced	Setup	Dithe	ning	Stocks	Print	er Memor	
Settings								
No. C	f Copies:	[1]			
Spee	d:		5	~	"/s			
Darkr	ness:	ĺ	15	~				
Stock	:s:	[User de	fined	_		\sim	
Paper Format								
	n			ort	rait			
	n	A	BCD	\bigcirc land	lscape			
() inc	ch	12	M5.76	🗹 rota	te 180°			
Size								
Width	I:	3.12						
Heigh	t:	2.25						
Unprintable Ar	ea —							
Left:		0.00		Top:	[0.00		
Right	:	0.00		Bottom	n: [0.00		

3. On the Advanced Setup tab, verify the settings match the image below. Click **OK** to apply the settings and close the window.

🖶 ZDesigner GK420d Print	ting Prefer	ences			×
Command Fonts Custom Options Advanced Setup	Commands Dithering	Import/E Stocks P	xport settings rinter Memory	Tools Barcod	About e Fonts
Use printer settings Operation Mode					
• Tear off			ID		
Rewind		⊖ Cư	tter		
◯ Peel Off		Group	o Quantity:	0	
ApplicatorStream		⊖Ad	vanced **		
Mirror Image		🗌 Inv	erse		
Media Type					
◯ Thermal Transf	er	• The	ermal Direct		
Tracking Mode					
 Continuous 		\bigcirc Ma	rk Sensing		
Web Sensing					
Adjustment					
Тор	0.00	inch			
Tear Off	0.00	inch			
Left Position	0.00	inch			
** Only valid for use with L	abeling Sof	tware			
Applicato	r	Other	(Calibrate	
ОК	Can	cel	Apply	н	elp

4. Right Click on the printer and select Printer Properties.

Devices and Printers		- 0	×
$\leftarrow \ ightarrow \$	s v t	Search Devices and Printers	P
Add a device Add a printer See what's printing Print server properties	Remove device	F •	0
~ Devices (1)			
5CD6150RM8			
Printers (6)			
* * *	what's printing		
✓ Set	as default printer		
PDF Document Writer 16	ting preferences ner Iden monerlies Dd		
Cre	ale shortcut		
💎 Rer	nove device		
Tro	ableshoot		
ZDesigner GK420d State: 🕑 Default St	perties		
Model: ZDesigner GK420d			

5. On the Advanced tab, click **Printing Defaults...**

So ZDesigner (5K420d Pro	operties					×
Printer Settings General	Stocks Sharing	Language Ports	e Barcode Advanced	Fonts Color	Comma Manager	ind Fonts ment	About Security
Always av	ailable			_			
○ Available	from	12:00 AM	*	То	12:00) AM	*
Priority:	1	▲ ▼					
Driver:	ZDesigne	r GK420d			~	New Driv	ver
○ Start p	rinting aft rinting im ttly to the	er last page mediately printer	is spooled				
Hold misn	natched do	ocuments					
Print spoo	led docum	nents first					
C Keep print	ted docum	ents					
🗹 Enable ad	vanced pri	nting featu	res				
Printing [Defaults	Prin	t Processor		Sepa	rator Pag	e
		ОК	Cancel		Apply		Help

6. On the Options tab, check the box for rotate 180 degrees and verify that the Width and Height are set as shown. Click **OK**.

	Barcode Font		Command Fonts				
Custom (Commands	Impo	ort/Export	settings	To	ols	About
Options	Advanced	Setup	Dithe	ring	Stocks	Prin	ter Memory
Settings							
1	lo. Of Copies:		1				
\$	Speed:		5	~	"/s		
[)arkness:		15	~	i i		
9	Stocks:		User def	fined	-		\sim
Paper Fo	mat						
() cm			ort	rait		
(⊃mm		ABCD	Oland	scape		
() inch	III,	25465376	🗹 rota	e 180°		
Size —							
١	Vidth:	3.12					
H	leight:	2.25					
Unprintab	le Area ——						
L	.eft:	0.00		Top:		0.00	
F	Right:	0.00		Bottom	r: [0.00	

7. On the Advanced Setup tab, verify the settings match the image below. Click **OK** to apply the settings and close the window.

🟚 ZDesigner GK420d I	Printing [Defaults					
Barcode Font	S		Command Fonts				
Custom Commands	Import.	Export setting	s To	ols	About		
Options Advanced	Setup	Dithering	Stocks	Pnn	ter Memory		
Use printer settings							
Operation Mode							
Tear off		() R	FID				
Rewind		OC	utter				
O Peel Off		Grou	p Quantity	: 0			
Applicator			dvanced *	•			
() Stream							
Mirror Image	9	L] In	verse				
Media Type							
O Thermal Transition	ansfer	(● T	nermal Dire	ect			
Tracking Mode							
Continuous		ОM	ark Sensin	g			
🔾 Web Sensir	ng						
Adjustment							
Тор	0.00) inch					
Tear Off	0.00	inch					
Left Position	0.00) inch					
** Only valid for use wi	th Labeling	g Software					
Applica	ator	Other		Calił	orate		
2 de la constante de		0.00					

8. Configuration is complete.

Testing Communication from the Workstation to the Printer 1. Select the printer in Zebra Setup Utilities then press **Open Printer Tools**

🦉 Zebra Setup Utilities	_		×
Printers			
The list below displays installed printers. To configure a printer, select it and choose one of the co	onfiguration opt	ions belo	w.
ZDesigner GK420d	📑 Install N	ew Printer	r
USB001	🕌 Uninsta	II Printer	
	C Refresh I	Printer Lis	t
Printer Configuration			
Configure the selected printer			
Configure Printer Settings	and Graphics		
Configure Print Quality	er Tools		
🔪 Configure Printer Connectivity 🗮 Open Communicat	ion With Printer		
General Operations			
Perform the following application operations			
<u>About</u> <u> </u>	Q []	lose	

2. A new window named Tools will open. Select **Print configuration label** then press **Send**. A long receipt should print showing the settings of the printer.

The list below	displays in	stalled print	ters. To configure	e a printer, select	t and choose one o	f <mark>the configu</mark>	ration options below.
	Tools					×	Install New Printer
	Printer C	Comands —	ninter				Uninstall Printer
	Print	Action	philter				Refresh Printer List
Printer Configuration	Print o Feed o Print o	onfiguration ne label bject list	n label				
	Commar The Pri label. 1 such a the pri	nd Descripti int Configu The printer s sensor typ inter memor	on ration Label com configuration lab e, network ID, Zf y,	mand is used to g sel contains infori 2 mode, firmware	enerate a printer co nation about the pr version, and descri	nfiguration inter setup, ptive data in	aphics
							h Printer
General Operations —				Send	Close	Help	
Perform the fo	llowing ap	plication op	perations				
		-					-

User Account Configuration

Zebra Browser Print Setup

1. When the Zebra Browser Print program runs for the first time, the End User License Agreement **will** pop-up. Click **I Agree**.



2. A pop-up about communicating with a web browser will appear. Click OK.

Browser	Browser Print Security Certificate X					
The security certificate needs to be accepted in your browser to enable https communication. Your browser will now be opened, please add an exception for the certificate.						
	ОК					

3. A pop-up will appear requesting to add localhost to the accepted hosts list. Click **Yes** and proceed to step 8.

Note: If you don't see a pop-up appear requesting to allow lovalhost to the accepted hosts list proceed to step 4.



4. Open a new tab from web browser and enter https://localhost:9101/ssl_support

New tab	× +		- o ×
$\leftarrow \rightarrow \mathbf{C}$	https://localhost:9101/ssl_support		¢ @ 🔵 …
or quick access, place your favo	orites here on the favorites bar. <u>Manage favorites no</u>	M	
			Sign in 💭 🙆 🐯
	Search the web	Q Q	
		and the second se	

5. There will be a page popping up saying "Your connection isn't private", click **Advanced**.



6. Click Continue to localhost(unsafe). You will see a message "SSL Certificates has been accepted. Retry connection".



7. A pop-up will appear requesting to add localhost to the accepted hosts list. Click **Yes**.



8. The Zebra logo icon will now appear in the system tray indicating that Zebra Browser Print is running.



Next Steps: Follow the steps outlined in the CalSAWS Fact Sheet- Zebra Browser Print Configuration to configure the Browser Print utility for each user.