

# SDL 400S



# USER MANUAL

for Windows & Mac

Links to mobile apps, printers and weighers.







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# **Getting started**

The SDL400S stick reader comes complete with everything you need to get started.

- SDL stick reader
- Shearwell SDL Connect software
- Battery pack and four rechargeable AA batteries
- Mains battery charger
- Car adapter for battery charger



### Turn the stick reader on and off

Press and release the green button once. The LCD screen will light up and display the start-up screen (version number and the battery level).

Turn off the stick reader by pressing and holding the green button for at least two seconds until the LCD screen shuts off. If the stick reader is left idle for five minutes it will turn itself off to conserve battery power. Shutdown time can be changed on the computer with *SDL Connect > Stick Configuration* 

Warning: The Shearwell label above the display should NOT be removed! The serial number, product codes and Bluetooth address are printed on the back. Removal of the label will void any warranty.

# **Battery information**

The stick reader comes with four AA rechargeable batteries. Standard AA batteries can also be used.

### **Inserting batteries**

### Note: You will not lose your data when you remove the battery pack.

- 1. Open the stick reader by unscrewing the end of the red or blue handle. Use the white loop to pull out the battery pack.
- 2. Insert the batteries into the holder ensuring the positive and negative markings (+ / -) on the batteries match up with the (+ / -) on the holder.
- 3. Insert the battery pack with the green arrow and green circle facing the same direction as the green button on the reader. Ensure that the battery pack is aligned with the grooves inside the stick reader.
- 4. Replace the end of the reader by screwing the cap on. *Warning: Do not over-tighten the battery cap as this could damage the thread.*





### Check the battery level

The battery level indicator shows very briefly on the start-up screen when the stick reader is turned on. To check the level of the batteries when the stick reader is turned on, first turn it off, then turn it back on to see the start-up screen.

The stick reader should operate for at least eight hours on a fully charged set of batteries. For the first several hours the battery indicator will show *Good*. When the battery indicator first shows *Low* you should still have one or two hours of use left, but should plan to recharge or replace the batteries soon. A sign the batteries are getting low is the stick reader is unable to maintain a Bluetooth link to a printer or weigher. When the indicator shows *Empty* the batteries should be recharged or replaced immediately.

Shearwell Version Battery Good

Shearwell Version Battery Low Shearwell Version Battery Empty

### **Charging the batteries**

Use the supplied battery charger to recharge the batteries. The mains and car adapter for charging the stick reader batteries are labelled "Battery Charger". Place the batteries in the charger, ensuring that the positive and negative markings (+ / -) on the batteries match up with the (+ / -) on the charger. Charging the supplied batteries from flat to full should take about four hours.

The mains and car adapter for charging the printer are labelled "Printer Charger". Be careful not to confuse the battery charger and printer charger leads because you could damage them by using the wrong adapter!

**WARNING:** If you are using a Bluetooth printer with a stick reader be sure to use the correct adapter for each when re-charging. Shearwell Data Ltd. will not be liable for damage caused by failure to use the correct charger.

# Reading tags

Turn on the stick reader. Press and release the green button once. You don't need to hold the button down. The stick reader will begin to scan for an EID. For information on Rapid Read mode see page 7.



### EID found

If an EID is within range the light ring at the end of the stick reader will flash green and a short 'beep' will be heard. The EID number will show on the LCD screen and be stored in the memory. The group count will be increased by one. The stick reader is ready to scan for another EID - press the green button once to start scanning again.

UK0123456 08863 Grp=A Count=1

### EID not found

If the stick reader scans but no EID is found the screen will display *No EID found*. The light ring will glow red and a different long 'beep' will signal a failed read.

No EID found Grp=A Count=0

### **EID** already stored in memory

If the same EID tag is read more than once, the screen will briefly display the message *Already saved*. The light ring will flash red and a short beep will indicate that this number is already stored in memory for this group. The second 'read' is not stored and the count is not increased.

If the same EID tag is scanned in a <u>different</u> group the stick reader will treat it as a new number and record it as an EID found.

UK0123456 08863 Already saved... UK0123456 08863 Grp=B Count=3

Note: This information is for individual reading, not Rapid Read mode. Learn about Rapid Read mode in the Menu Option section on page 7.

# Menu options

The menu is a list of options for changing the way the stick reader functions. The menu is only accessible when the stick reader is turned on.

- 1. Turn off the stick reader by holding down the green button.
- 2. With the stick reader off, press and hold down the green button. Continue holding down the green button to view all the menu options.
- 3. Release the green button to make a selection.
- 4. To exit the menu without making changes and return to scanning, wait for the *Cancel* option and release the green button.

### **Menu options**

Your own stick reader may not have every option listed here.



### New group

Animals are always recorded into a group. The default group is "A" but you can create different groups beyond that, named in alphabetical order. However, only one group is active at a time, so once you create a new group you can not go back to a previous group unless you erase your latest group by using the *Erase last grp* option from the menu.

Print options are available if the stick reader is linked to a Bluetooth printer. See page 18.



```
Are you sure?
Press to erase
```

### Erase last group

When a grouping of animals is no longer wanted, erase the group and all the EID numbers stored inside it will be deleted. This will result in the previous group becoming the active group.

Select *Erase last grp* from the menu. Confirm by pushing the green button again before the end of the countdown. If you do not push the green button before the end of the countdown the action will be canceled.





### Erase all tags

This function deletes all the EID numbers stored in memory. The stick reader software can store thousands of EID numbers but the more tag numbers in storage, the slower the process of scanning and saving each tag. Once you have exported or printed tag numbers it's advisable to delete them. Erasing all tags also allows animals to be re-scanned and their EID number saved again.

Select *Erase all tags* from the menu. Confirm by pushing the green button again before the end of the countdown. If you do not push the green button before the end of the countdown the action will be canceled.

# Menu options



Memory disabled Press to read...

### **Disable memory**

Disabling the memory allows tags to be scanned and the number displayed but the EID is not stored.

Select *Disable memory* from the menu. To re-enable memory after disabling it, select the *Enable memory* option from the menu.

Rapid read on?

Rapid read off?

### **Rapid Read mode**

When set to **Rapid Read** there is no need to press the green button for every animal - the stick reader will be constantly scanning for tags. The stick reader will look for new tags continuously for up to 12 seconds. If no tags are detected in that 12 seconds, the stick reader gives a long beep, stops scanning and goes on standby to conserve battery power. Press the green button again to start scanning again.

Select **Rapid read on** from the menu to change from **Press to Read** to **Rapid Read**. Press and release the green button once and the stick reader will be constantly scanning for tags. Press the green button a second time to stop scanning. To disable rapid read mode and return to individual read, select **Rapid read off** from the menu. Note that the stick reader remembers the last mode selected when it was turned off and will start in that mode when next turned on.



Cancel

This option will close the menu without any changes to the settings.

# Link to weigher?

### Link to weigher

This option is available if the stick reader is configured to link to a Bluetooth weigh head. See page 28.

Print options are only available if the stick reader is linked to a Bluetooth printer. See page 26.

# SDL Connect download

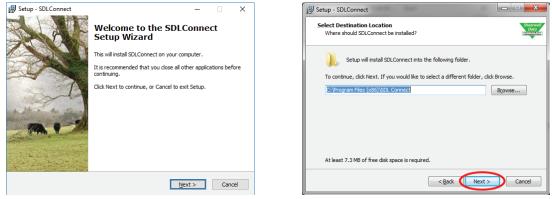
The software program for connecting your stick reader to your computer is called **SDL Connect**. Install this software on your computer from the CD or the Shearwell website before you start scanning tags. Being able to connect your stick reader to your PC is useful even if you are only planning to link your stick to a mobile printer. Changing configurations and keeping the date and time correct are all done through the computer software.

### Download the program from the Shearwell website:

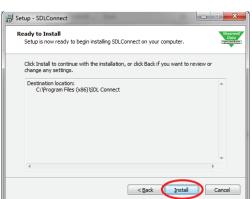
- » Go to www.shearwell.co.uk
- » Click on the **Support** tab at the top of the page.
- » On the left-hand side of the page, find *Stick Reader Downloads*. Click on the link.

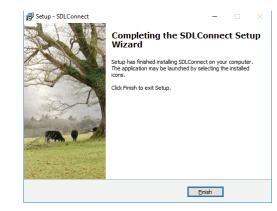


- 1. Allow the app to make changes to your computer. Select the language you prefer for the installation.
- 2. On the Welcome screen click Next.
- 3. On the Select Destination screen leave as is, click on Next.



- 4. On the *Ready to Install* screen, click on *Install*.
- 5. Click *Finish* to exit the setup program. An *SDL Connect* icon is now on your computer desktop.





# SDL Connect install from a CD

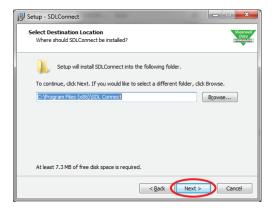
We recommend all other programs on your computer be closed before you start the installation process.

1. Insert the **SDL Connect** software CD into your computer. Open the CD with Windows Explorer to view the files and select *SDLConnectSetup.exe* 

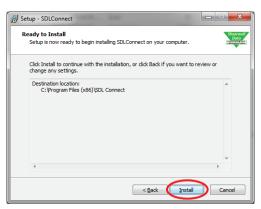
💻 👂 My Com	puter »		> My Computer > DVD RW Drive (	F:) SDLConnect Installation
Name	^	Туре	Name	Date modified
Devices and	drives (8)		$\sim$ Files Currently on the Disc (7) $-$	
🏪 OS (C:)		Local Disk	FTDI CDM20602 USB Drivers	18/03/2016 04:56
Removable D	isk (D:)	Removable Disk	Autorun.inf	06/08/2015 04:53
	(Y (E:)	Local Disk	🔁 SDL400 User Manual.pdf	12/11/2015 12:40
BVD RW Drive	e (F:) SDLConnect Installation	CD Drive	🔁 SDL440 User Manual.pdf	12/11/2015 12:54
use Drive (G:	)	USB Drive	SDLConnect.ICO	06/08/2015 04:53
USB Drive (H:	)	USB Drive	🔂 SDLConnectSetup.exe	06/08/2015 04:53
USB Drive (J:)		USB Drive	vssver.scc	06/08/2015 04:54

- 2. Allow the app to make changes to your computer. Select the language you prefer for the installation.
- 3. On the Welcome screen click Next.
- 4. On the *Select Destination* screen leave as is, click on *Next*.





- 5. On the *Ready to Install* screen, click on *Install*.
- 6. Click *Finish* to exit the setup program.







An *SDL Connect* icon is now on your computer desktop as a link to open the program.

# Install the software - Mac

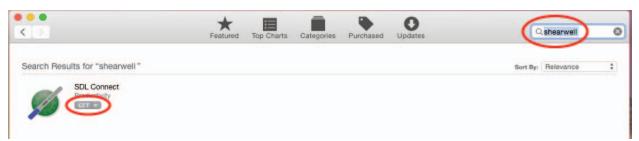
The software for connecting your stick reader to your computer is called **SDL Connect**. It works on Mac OS X 10.9 or later. The software allows you to transfer information between the stick reader and your computer. Being able to connect your stick reader to your computer is useful even if you are only planning to link your stick to a mobile printer. Changing configurations and keeping the date and time correct are all done through the computer software.

Note: Your stick reader must be fully charged to make a Bluetooth connection.

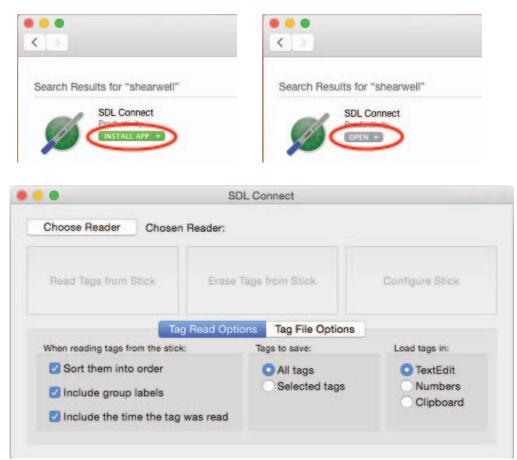


Install from the App Store

- 1. Click on the App Store icon to open.
- 2. In the search box type in *Shearwell*. Hit the *<Enter>* key or click the magnifying glass icon to search.
- 3. Find *SDL Connect* in the search results. Click *Get*.

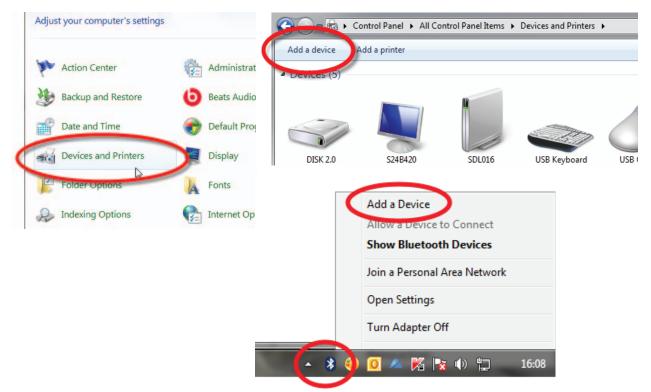


- 4. Click Install App.
- 5. Enter your Apple ID and password if prompted. The program will be installed on your computer.
- 6. Click *Open* to start using the program.



### Windows 7

- 1. Turn on the stick reader.
- 2. In the Control Panel open *Devices and Printers*. Select *Add a Device*. Or click the Bluetooth icon on the bottom right-hand corner of your computer screen and select *Add a Device*.



3. Your PC will start searching for Bluetooth signals. When it's finished scanning, the window will show a list of available devices.



 Look on the back of your stick reader for a label with its Bluetooth name - it will start SDL440S, followed by another four digits. For example: SDL400S 1234



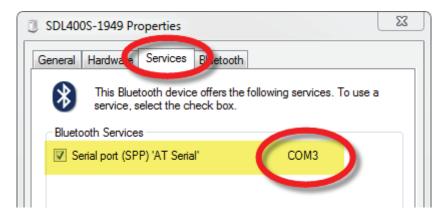
5. Find your stick reader's Bluetooth name on the screen and select it. Right-click with the mouse and click *Pair*.



6. On the next screen type in the pairing code **1111**. Click **Next**.

Enter the passcode for you	ar device
Enter the p	basscode for your device
	You can find the passcode on your SDL400S-1524 or in the info that came with it.
	Next Cancel

- 7. Allow time for Windows to install the software drivers.
- 8. When the stick reader has been successfully paired click on the link to Devices and Printers .
- 9. Look on the *Services* tab. Make a note of the Serial (COM) port number which will be required when you connect to the stick reader software.



- 1. Turn on the stick reader.
- 2. Click with your mouse on the Start button. Select Settings.
- 3. Click on *Devices*.



- 4. Make sure Bluetooth is turned on. Click on *Add Bluetooth or other device*.
- 5. Select Bluetooth (Mice, keyboards, etc.)

÷	Settings		Ad	d a device	×
۲	Home	Bluetooth & other devices	А	dd a device	
Fin	d a setting 🔎	+ Add Bluetooth or other device	Ch	oose the kind of device that you want to add.	
Devi	ces Bluetooth & other devices	Bluetooth On	*	Bluetooth Mice, keyboard <sup>,</sup> pens or other kinds of Bluetooth device	
¢	Printers & scanners		ç	] Wireless display or dock Wireless monitors, TVs or PCs that use Miracast or wireless dock	s
			+	Everything else DLNA, DIAL, POS and more	
					Cancel

- 6. Your PC will start searching for Bluetooth signals. When it's finished scanning, the window will show a list of available devices.
- Look on the back of your stick reader for a label with its Bluetooth name it will start SDL440S for a blue-handled stick reader, or SDL400s for a red-handled stick reader, followed by another four digits. For example: SDL440S 1234



Add a device ×	Add a device ×
Add a device	Add a device
Make sure that your device is turned on and discoverable. Select a device below to connect.	Make sure that your device is turned on and discoverable. Select a device below to connect.
5DL4005-1524	反 SDL440S-943

- 1. Find your stick reader's Bluetooth name on the screen and select it. Click *Pair*.
- 2. For a red-handled stick type in the pairing code 1111. Click Connect.
- 3. Allow time for Windows to install the software drivers. The stick reader will be show as "Paired" when it is successfully connected. Click *Done*.

Add a	device			$\times$	,	Add a device		×
Ad	d a device				,	Your device is rea	ady to go!	
	e sure that your device w to connect.	e is turned on an	nd discoverable. Select a device					
ţ,	SDL400S-1524 Connecting				C	SDL400S-1524 Paired		
	Enter the PIN for SDL	_400S-1524.						
	1111			$\times$				Done
	Conne	ct	Cancel					
			Cancel					

4. When the stick reader has been successfully paired click on the link to *More Bluetooth Options*. Look on the *Com Ports* tab. Make a note of the Outgoing Serial (COM) port number which will be required when you connect to the stick reader software. Click *Cancel* to exit.

	8 Bluetoot	th Settings	
settings	Option CC	OM Ports Jardwa	re
and printers	This PC is	using the COM (	serial) ports listed below. To determine
ttings		ou need a COM p Bluetooth device	port, read the documentation that came
ettings	Port	Direction	Name
	COM3	Outgoing	SDL400S-1524 'AT Serial'
ager	COM4	Incoming	SDL400S-1524
ooth options			
eive files via Bluetooth			A <u>d</u> d <u>R</u> emove

# Make a Bluetooth connection - Mac

- 1. Turn on the stick reader.
- 2. Open *SDL Connect* on your computer.
- 3. Click on *Choose Reader*.

Read Tags from Stick	Erase Tag	is from Stick	Configure Stick
Тас	g Read Options	Tag File Options	
Vhen reading tags from the stick		Tags to save:	Load tags in:
Sort them into order		O All tags	TextEdit
Include group labels		Selected tags	Numbers
Include the time the tag	was read		Clipboard

4. Look on the back of your stick reader for a label with its Bluetooth name - it will start SDL440S, followed by another four digits. For example: SDL440S 1234



5. Click on your stick reader's Bluetooth name on the screen. Click Select.

*	Select a Bluetooth device from the list of o it is "discoverable"	devices. If your device is not found make sur
Devices		
👔 s	DL400S-2772	Pair

# Make a Bluetooth connection - Mac

1. If you are asked for a passcode type in 1111. Click *Pair*.

	Pairing Requ	uest from: SDL4	400S-2772
-	Pairing Request fro	m: SDL400S-2	2772
*	Please enter a passcode	e to use with this i	device.
	passcode. Passcodes a	re only used once passcode needs t	th device you need to enter a , and they do not need to be to be entered on both the computer
	Passcode:	••••	
Ignore	this Device		Cancel Pair

2. The stick reader connection will show on the **SDL Connect** screen.

Choose Reader Chosen	Reader: SD		
Read Tags from Stick	Erase T	ags from Stick	Configure Stick
Tag When reading tags from the stick	g Read Optio	Tag File Options	Load tags in:
<ul> <li>Sort them into order</li> <li>Include group labels</li> <li>Include the time the tag</li> </ul>	was read	All tags Selected tags	TextEdit Numbers Clipboard

# **Open SDL Connect - Windows**

- 1. Switch on the stick reader and check the battery level is good.
- 2. Double-click the *SDL Connect* icon on your computer desktop to start. The software will open and start searching for our stick reader.



3. If the functions are grayed out then the program does not know which Bluetooth port to use. Click on the COM port dropdown list on the right side of the screen. Select the COM port number you recorded earlier. The program will search again for your stick reader - make sure the stick reader is still awake!

🖉 SDLConnect v1.5.4 © 2009	- 2015 Shearwell Data Ltd.			
If you have not yet enabled the Blu to your PC please do so now and to to which it is connected from the lis please click the Refresh COM Port	um the stick reader on. Then select t alongside. If the COM port is not s	the COM port	COM9 COM4 COM6 COM8 COM9 COM10	Refresh COM Port List
Read Tags from Stick Show Tag File Options	Erase Tags from Stick	Configure Stick		Select the correct COM port off the dropdown list.
Show Tag Read Options				

4. When a successful connection is made the buttons that were grayed out will become active. The stick reader software has now been successfully installed and you will not need to enter your COM port number again.

Stick Reader v1 5 4 © 2009	- 2017 Sheanwell Data Ltd		×					
	Reader v1.5.4 © 2009 - 2017 Shearwell Data Ltd. Successfully paired! All the functions are enabled and the buttons are active.							
Read Tags from Stick	Erase Tags from Stick	Configure Stick	Exit					
Show Tag File Options	Set up Tag File	Send Tag File to Stick	Erase Tag File from Stick					
Sho <del>w</del> Tag Read Options								

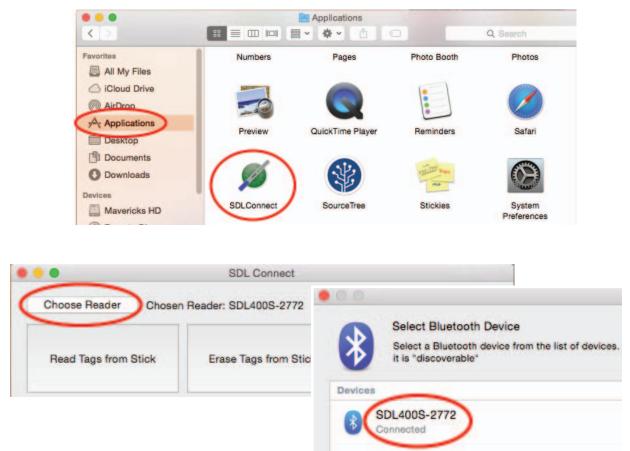
# **Open SDL Connect - Mac**

- 1. Switch on the stick reader and check the battery level is good.
- 2. Click on the **SDL Connect** icon if there is a shortcut on your desktop.



SDLConnect

3. If there is no desktop shortcut, open *Finder*, click on *Applications* and select **SDL Connect**.

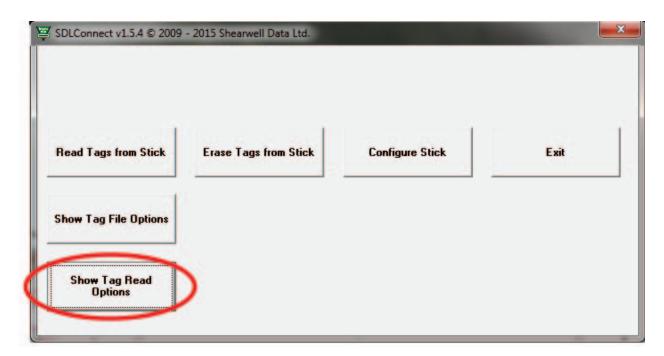


4. If your stick reader is not connected, highlight it and click *Select*.

	Select Bluetooth Device	
∦	Select a Bluetooth device from the list o it is "discoverable"	of devices. If your device is not found make
Devices		*
	SDL400S-2772 Not Connected	8
-		
		Cancel (Sel

# **Options for downloading - Windows**

EID numbers stored on the stick reader can be downloaded into your computer using the supplied software. Before you start, click on *Show Tag Read Options* to set your preferences. Click *Hide Tag Read Options* to close the option screen.



Read Tags from Stick	Erase Tags from Stick	Configure Stick	Exit
Show Tag File Options			
ag Read Options	When reading tags from the stick	Tags to save	Load tags in:
lide Tag Read Options	Sort them into order	<ul> <li>All tags</li> <li>Selected tags</li> </ul>	Notepad     Excel

### Tag read options

When reading tags from the stick...

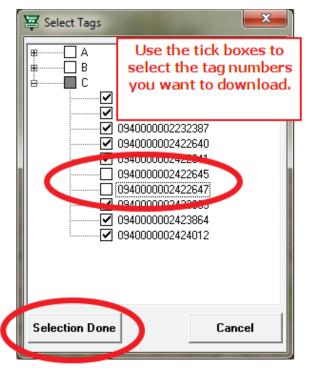
- Sort them into order means arranging the numbers from lowest to highest tag number.
- Include group labels means show the group (Ex. Group A, Group B, Group C, etc.).
- Include the time the tag was scanned means show the date and time each tag was scanned.

# **Options for downloading - Windows**

Tags to save

- All tags from stick means show all the groups and all the tags.
- Selected tags from stick means you can select a specific group and then select which tag numbers in that group.





Load tags in:

- **Notepad** means a text file that can also be saved as a CSV (comma separated values) file that is easily imported into a spreadsheet or a database application.
- **Excel** means as a spreadsheet in Microsoft Excel. Note: The program detects whether Excel is installed on your computer. If it is not installed then Notepad is the default.
- Windows Clipboard means the selected tag numbers are copied and ready to paste into a holding register or animal movement document, such as for the NLMD-LT or the Animal Reporting and Movement Service (ARAMS). Numbers on the clipboard can be pasted into any Windows program.

### **MS Excel format**

-	Home Insert	t Pag	ge Layout	Formulas	Data	Review	View
	A1	• (9	f <sub>x</sub>	Tag or EID			
	A	В		С	D	E	F
1	Tag or EID	Group	D	ate/Time			
2	UK0244220 12474	A	2013-09	-17 7:22:45 AM			
3	UK0244220 12475	A	2013-09	-17 7:22:45 AM			
4	UK0244220 12476	A	2013-09	-17 7:22:43 AM			
5	UK0244220 12685	A	2013-09	-17 7:22:44 AM			
6	0940000002138896	в	2013-09	-17 7:24:14 AM			
7	094000002152586	в	2013-09	-17 7:24:15 AM			

### Windows clipboard format

0826024422015281, A, 21/02/2014 9:26:45 AM 0826024422019012, A, 21/02/2014 9:26:45 AM 0826024422019027, A, 21/02/2014 9:26:43 AM 0826024422019077, A, 21/02/2014 9:26:45 AM 0826024422030386, A, 21/02/2014 9:26:44 AM Total for group A: 5

Total: 5

### Notepad format

📕 Tag import 2	013-09-17 7:26	:31 AM for group	В			
File Edit Forma 09400000211 09400000211 09400000211 09400000214 09400000216 Total for gr	38896, B, 52586, B, 53680, B, 23925, B, 58955, B,	2013-09-17 2013-09-17	7:24:15 AM 7:24:16 AM 7:24:18 AM		A	
	File Edit For UK0244220 UK0244220	2013-09-17 7:2 mat View Help 12476, A, 12685, A,	2013-09-17 2013-09-17	7:22:43 7:22:44	AM	_
	UK0244220	12474, A, 12475, A, group A: 4				
	1					

# Download tag numbers - Windows

### **Download EID numbers**

- 1. Turn on the stick reader and ensure it has a Bluetooth link to your computer.
- 2. Click on the *SDL Connect* shortcut icon on your desktop. The software will open and the blue light on the stick reader will flash as they connect.
- 3. Select options for downloading by clicking on the *Show Tag Read Options* button.
- 4. Click *Read Tags from Stick*.
- 5. If viewing the numbers in an Excel or Notepad format you can save the data. Go to *File > Save As*, name the file and select a location.

SDLConnect v1.5.4 © 200	9 - 2015 Shearwell Data Ltd.		
Read Tags from Stick	Erase Tags from Stick	Configure Stick	Exit
Show Tag File Options		Charl Class on	
Hide Tag Read Options	When reading tags from the stick  Sort them into order  Include group labels	Tags to save	Load tags in: Notepad Excel
	Include the time the tag was read		C Windows clipboard

### Erase tag numbers from the stick reader

Downloading tags into the computer does not remove the numbers from the stick reader's memory. To erase tags, you can click on the *Erase Tags* button, and then click *Yes* to confirm. You can also erase tags on the stick reader itself - select *Erase Tags* as a menu option when you turn on the stick reader.

SDLConnect v1.5.4 © 2009 - 2015 9	ihearwell Data Ltd.		
Read Tags from Stick	se Tags from Stick	Configure Stick	Exit
Show Tag File Options			
Show Tag Read Options			

# **Options for downloading - Mac**

EID numbers stored on the stick reader can be downloaded into your computer using *SDL Connect*. Before you start click on *Tag Read Options* to set your preferences.

### Tag read options

When reading tags from the stick ...

- Sort them into order means arranging the numbers from lowest to highest tag number.
- Include group labels means show the group (Ex. Group A, Group B, Group C, etc.).
- Include the time the tag was scanned means show the date and time each tag was scanned.

Read Tags from Stick	Erase Tags from Stick	Configure Stick
Tag The meading tags from the stick	g Read Options Tag File Option	s Load tags in:
Sort them into order Include group labels	All tags Selected tags	TextEdit Numbers Clipboard

Tags to save

- All tags from stick means show all the groups and all the tags.
- **Selected tags from stick** means you can select a specific group, open the group, and then select individual tag numbers in that group.

Read Tags from Stick	Erase Tags from Stick	Configure Stick	
Head Tags from Stick	Erase rags nom onex	Configure Stick	
Tag When reading tags from the stick:	Read Options Tao File Option Tags to save:	s Load tags in:	
<ul> <li>Sort them into order</li> <li>Include group labels</li> <li>Include the time the tag v</li> </ul>	All tags Selected tags	TextEdit     Numbers     Clipboard	
			ny of the boxes to t specific groups

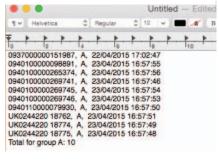
# **Options for downloading - Mac**

Load tags in:

- **TextEdit** means a text file that can also be saved as a CSV (comma separated values) file that is easily imported into a spreadsheet or a database application.
- **Numbers** means as a spreadsheet in iWorks. Note: The program detects whether Numbers is installed on your computer. If it is not installed then TextEdit is the default.
- **Clipboard** means the selected tag numbers are copied and ready to paste into a holding register or animal movement document. Numbers on the clipboard can be pasted into another program.

Choose Reader Chosen	Beader: SDL	Connect	
	Theader. ODL	1000-2112	
Read Tags from Stick	Erase Ta	gs from Stick	Configure Stick
Та	g Read Option	s Tag File Optio	ns
When reading tags from the stick	c	Tags to save:	Load tags in:
Sort them into order		All tags	O TextEdit
Include group labels		Selected tags	Numbers
Include the time the tag	was read		$\sim$

### TextEdit format



### Numbers format



### Data Imported 10-08-2015 10:25

Tag or EID	Group	Date/Tine
0937000000151987	A	22/4/15 17:02:47
094010000098891	A	23/4/15 16:57:55
0940100000265374	A	23/4/15 16:57:56
0940100000269741	A	23/4/15 16:57:46
0940100000269745	А	23/4/15 16:57:54

### Clipboard format - paste into other programs

LIVESTOCK TRACING	- Mail m	a second a second	AN THE ME AND	ardtest@nimd.co.u holding: 36/104/008	Locout
НОМЕ	MANAGE ANIMALS	MANAGE HOLDINGS	REQUEST	REPORTS	MY DETAILS
Move Animals This is the second step in recording a movement. You need to type in either the RFID numbers or the visual tag numbers of the animals you want to transfer	MOVEMENT ANIMALS	FCI DEPARTURE	TRANSPORT	ARRIVAL	COMPLETE Management Group
or better, copy and paste the information from your EID reader file. View help recording a movement with document	Enter list of individual identifie 0937000000151987 0940100000268374 0940100000268374 0940100000269745 0940100000269745 0940100000269745	rs 📀			

# Download tags numbers - Mac

### **Download EID numbers**

- 1. Turn on the stick reader and ensure it has a Bluetooth link to your computer.
- 2. Click on the *SDL Connect* shortcut icon on your desktop to open the software.
- 3. Select options for downloading by clicking on the *Tag Read Options* button.
- 4. Click *Read Tags from Stick*.
- 5. If viewing the numbers in a TextEdit or Numbers format you can save the data. Go to *File > Save As*, name the file and select a location.

Choose Reader Chosen R	eader: SDL400S-2772	
Read Tags from Stick	Erase Tags from Stick	Configure Stick
Tag F When reading tags from the stick:	Read Options Tag File Option Tags to save:	Load tags in:
Sort them into order Include group labels Include the time the tag wa	All tags Selected tags	TextEdit     Numbers     Clipboard

### Erase tag numbers from the stick reader

Downloading tags into the computer does not remove the numbers from the stick reader's memory. To erase tags, you can click on the *Erase Tags* button, and then click *Yes* to confirm. You can also erase tags on the stick reader itself - select *Erase Tags* as a menu option when you turn on the stick reader.

Read Tags from Stick	Tags from Stick	Configure Stick
Tag Read Opt	tions Tag File Options	
When reading tags from the stick:	Tags to save:	Load tags in:
Sort them into order Include group labels Include the time the tag was read	All tags Selected tags	<ul> <li>TextEdit</li> <li>Numbers</li> <li>Clipboard</li> </ul>
This will enstitick. Are you sure?	ase all animal data store	d on the

# Configure the stick reader - Windows

To save your changes click on *Save Configuration*. To cancel and exit click on *Quit*.

### **Firmware Version**

This is the current software version number on the stick reader.

### **Serial Number**

This is the stick reader's serial number. This is also printed on the Shearwell label on the back of the stick reader.

Configuration (use the scrollbar on the right to view all configuration items)	
Firmware Version 1.46	-
Serial Number 110803121	
Scan time (seconds) from 1 to 10 4	
Shutdown time (minutes) from 1 to 10 5	
EID Display Format UK wYSTWYG	
EID Output Format UK WYSIWYG	
Save Readings to Stick Memory Yes	
Language English	
Continuous Read Mode Press to Read	•
Save Configuration Quit	

### Scan time (seconds) from 1 to 10

This is the length of time the stick reader will search for an EID tag before giving a failed read signal. Type in a scan time from 1 to 10 seconds. The default time is 4 seconds.

### Shutdown Time (minutes) from 1 to 10

This is the length of time the stick reader will be inactive before it shuts off automatically. Type in a shutdown time from 1 to 10 minutes. The default time is 5 minutes.

### **EID Display Format**

This is how EID numbers are shown on the stick reader's display screen. This also controls how EID numbers will appear in print-outs. *Tag Lookup* is the format when a tag (bucket) file is loaded. For more information see page 22 - *Tag File Options* and page 26 - *EID Options*.

### **EID Output Format**

This is the format for information the stick reader sends to any connected Bluetooth device, such as a printer or weigh head. Instructions for linking those devices will indicate what format they require. *Tag Lookup* is the format when a tag (bucket) file is loaded. For more information see page 22 - *Tag File Options* and page 26 - *EID Options*.

### Save Readings to Stick Memory

This is the same as *Disable Memory* on the stick reader menu. Select *No* to disable the memory; select *Yes* to enable the memory.

### Language

Select a language for the display. The computer must also have the *Control Panel > Region and Language* options set to the same language.

### **Continuous Read Mode**

This is the same as the Rapid Read option on the stick reader's menu. The stick reader will scan continuously for EID tags without the user pushing the green button for each animal. If no tags are found, the stick reader will stop scanning after 12 seconds. *Press to Read* means the stick reader scans for a tag only when the green button is pushed; when a tag is read the green button must be pushed again to scan for another tag.

### Continuous Read Timeout (seconds) 1 to 30

This is the length of time the stick reader will scan for tags in Continuous Read mode. If no tags are detected in this time then the stick reader will give a long beep and stop scanning. The default time is 12 seconds. Type in a scan time from 1 to 30 seconds.

For printer options see page 26 - Link to a Mobile Printer.

# Configure the stick reader - Mac

### Details

### Firmware Version

This is the current software version number on the stick reader.

### **Serial Number**

This is the stick reader's serial number. This is also printed on the Shearwell label on the back of the stick reader.

### Language

This will set the language on the stick reader screen.

### Settings

### Scan time (seconds) from 1 to 10

This is the length of time the stick reader will search for an EID tag before giving a failed read signal. Type in a scan time from 1 to 10 seconds. The default time is 4 seconds.

### Shutdown Time (minutes) from 1 to 10

This is the length of time the stick reader will be inactive before it shuts off automatically. Type in a shutdown time from 1 to 10 minutes. The default time is 5 minutes.

### **EID Display Format**

This is how EID numbers are shown on the stick reader's display screen. This also controls how EID numbers will appear in print-outs. *Tag Lookup* is the format when a tag (bucket) file is loaded. For more information see page 22 - *Tag File Options* and page 26 - *EID Options*.

### **EID Output Format**

This is the format for information the stick reader sends to any connected Bluetooth device, such as a printer or weigh head. Instructions for linking those devices will indicate what format they require. *Tag Lookup* is the format when a tag (bucket) file is loaded. For more information see page 20 - *Tag File Options* and or *EID Options* in the Windows manual.

### Save Readings to Stick Memory

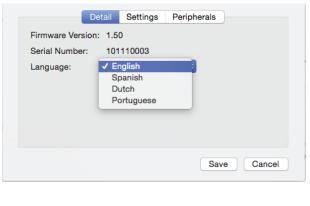
This is the same as *Disable Memory* on the stick reader menu. Select *No* to disable the memory; select *Yes* to enable the memory.

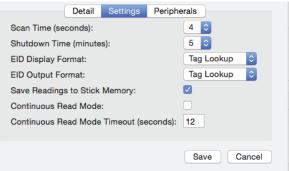
### **Continuous Read Mode**

This is the same as the Rapid Read option on the stick reader's menu. The stick reader will scan continuously for EID tags without the user pushing the green button for each animal. If no tags are found, the stick reader will stop scanning after 12 seconds.

### Continuous Read Timeout (seconds) 1 to 30

This is the length of time the stick reader will scan for tags in Continuous Read mode. If no tags are detected in this time then the stick reader will give a long beep and stop scanning. The default time is 12 seconds. Type in a scan time from 1 to 30 seconds.





# Link to a mobile printer

The stick reader is fully compatible with a thermal Bluetooth printer. The mobile printer recommended and supplied by Shearwell is an Able Systems AP1300BT.



### Printer on and off

Press the power button once to turn the printer on. The printer turns itself off automatically if it has not been used for a few minutes. You can turn the printer off manually by opening the cover and double-clicking the power button.

### **Battery charging**

The battery can be recharged using either the mains charger or the car charger supplied. Charging the printer battery from flat to full should take about three hours.

Indicator light Steady green = Normal operation Long green, short red = Battery is low Short green, long orange = Battery charging Blinking red = Error

**WARNING:** Use the correct adapter for charging the printer. Do not confuse the stick reader battery chargers with the printer chargers. The mains and car charger for the printer are labelled **Printer Charger.** 

### Paper roll installation

To insert a new roll of paper, slide the catch down and away from the paper slot. The cover for the paper container will release and open. Remove the old paper core and insert a new roll of paper.



# Link to a mobile printer

### Printer and stick reader combination

When a stick reader and printer are purchased as a bundle they will come from Shearwell with the Bluetooth link already established. A label on the underside of the printer confirms your stick reader is linked. Print options will not be displayed on your stick reader's menu if it is not linked to a printer.

### **New connections**

To establish a new printer link, or if you wish to link an existing printer to an alternative stick reader, you must have already completed the earlier steps for installing Bluetooth and the stick reader software on your computer. (See pages 8 to 12.) Once the stick reader is linked to the software on the computer a new connection to the printer is made through the **Configure Stick** screen on the PC.



- 1. Turn on the stick reader.
- 2. Open the SDL Connect software. Click on *Configure Stick*.
- 3. For a Windows computer, scroll down to find the *Printer Type* field. Select AP1300BT.
- 4. For a Mac computer, click *Configure stick > Peripherals*



- 5. Turn on the printer by pressing the power button. The indicator light will glow green.
- 6. Press and release the power button twice, in quick succession. This will cause the printer to print out a test strip.
- 7. On the test strip, find the MAC Address. This 12 character code is the printer's Bluetooth ID.
- 8. On the *Configure Stick* screen on the computer find the field *Printer Bluetooth ID* and type in the MAC Address from the test strip.
- 9. Click Save Configuration. The blue light on the stick reader will flash as the two connect.

🐺 Stick Reader Configuration	
Configuration (use the scrollbar on the right to view all configuration items) Language English Continuous Read Mode Press to Read Continuous Read Mode Timeout (seconds) from 1 to 30 12 Printer Type AP1300BT Label Printing Allowed No Label Printing On No Print in Order Print as read Printer Bluetooth ID 000780974F62 Weigher Bluetooth ID Save Configuration	DetailSettingsPeripheralsPrinter Type:AP1300BT Label Printing Allowed:
	Save

# Configure printer options - Windows

The *Configure Stick* window on your Windows computer software includes many of the same options as the menu on the stick reader. To save your changes click on *Save Configuration*. To cancel and exit click on *Quit*.

ľ	Stick Reader Configuration	
	- Configuration (use the scrollbar on the right to view all configuration items)	15
		English
	Continuous Read Mod	Press to Read
	Continuous Read Mode Timeout (seconds) from 1 to 3	12
	Printer Typ	AP1300BT
	Label Printing Allowe	J No
	Label Printing 0	No 🔽
	Print in Orde	r Print as read
	Printer Bluetooth II	0007805A8F06
	Weigher Bluetooth II	
	Save Configuration Quit	

### Label Printing Allowed

The *Print label* menu option is only available on the stick reader when the *Configure Stick* option is set to *Yes*.

Label printing is a specialized function so the default is set to No.

### Label Printer On

If Label Printing is allowed, then the actual label printing function can be turned on or off by selecting **Yes** or **No**. This option activates the Bluetooth printer after each animal is scanned - a label of each EID number is printed after each tag is read.

### Print in Order

EID numbers will be printed in numerical order.

Please note: Printing will be slower when this is selected.

Please note: *Print Order* does not work if the EID display option is set to *Tag Lookup*.

# Configure printer options - Mac

The *Configure Stick* window on your Mac computer software includes many of the same options as the menu on the stick reader. To save your changes click on *Save*. To cancel and exit click on *Cancel*.

Detail	Settings Peripherals
Printer Type:	AP1300BT ᅌ
Label Printing Allowed:	
Label Printing On:	
Print in Order:	Print in order ≎
Printer Bluetooth ID:	000780087934
Weigher Bluetooth ID:	0000000000
	Save Cancel

### Peripherals

### Printer Type

The default setting is AP1300BT. This is the mobile Bluetooth printer supplied by Shearwell.

### **Label Printer Allowed**

Label printing is a specialized function so the default setting is unticked.

### **Label Printer On**

If Label Printing is allowed, then the actual label printing function can be turned on or off by selecting **Yes** or **No**. This option activates the Bluetooth printer after each animal is scanned - a label of each EID number is printed after each tag is read.

### **Print in Order**

EID numbers can be printed in numerical order or in the order the tags were read. Note: Printing will be slower when *Print in order* is selected. Note: *Print in order* does not work if the EID display option is set to *Tag Lookup*.

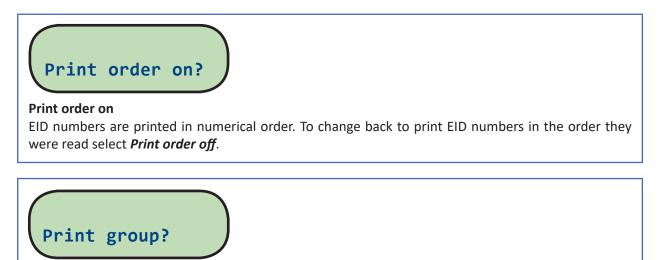
### **Printer Bluetooth ID**

This is the MAC address of the Bluetooth printer you want to link to your stick reader. See page 27 for how to find your printer's Mac address.

# Print options on the stick reader

A stick reader linked to a mobile printer will display print options on the stick menu. The format of the EID numbers depends on the settings you choose on the *Configure Stick* program on the computer.

- 1. Turn on the printer and make sure there is sufficient paper loaded.
- 2. Turn on the stick reader by pressing and holding the green button to see all the menu options.
- 3. Release the button to make a selection from the menu.



### **Print Group**

This prints all the EID numbers in the current group.



### **Print all groups**

This prints all the EID numbers divided into groups. No print out will be produced if Group A = 0 animals.



### Print barcode

EIDs are shown as both numbers and barcodes.



### Print labels

This option is only available when the stick reader is configured *Label Printing Allowed*. After each animal is scanned the printer prints the EID number and the matching barcode. If the EID Format is set to Tag Lookup then that number will appear underneath the barcode.

# EID Tag Formats

### Definitions

### WYSIWYG Tags

- "What You See Is What You Get". A 'WYSIWYG' tag has an electronic number (EID) that is the same as the number printed on the outside of the tag.
- UK sheep born after Jan 1, 2010 must have an official WYSIWYG tag.
- "Slaughter tags" are also WYSIWYG, although only the flock mark is visible on the outside.

### Non-WYSIWYG Tags

- A tag with an electronic number (EID) that is different than the number printed on the outside of the tag.
- A tag file is for non-WYSIWYG tags a cross-reference between the EID inside the tag and the number printed on the outside.

### Stick reader EID format options

Some countries and equipment manufacturers require EID numbers to be transmitted in a specific format. The SDL400S stick reader is able to transmit EID numbers in various formats. Changes to the EID format are

made through the *Configure Stick* function on the computer software.

### UK WYSIWYG (Sheep)

- Displays UK, followed by a space and the 7-digit flock number, followed by a space and the 5-digit individual animal number.
- The stick reader set to UK WYSIWYG will display non-UK tags in decimal format.

### Decimal

Displays the full 16-digit EID number

### Tag Lookup

- Used with a tag file for non-WYSIWYG tags.
- The EID number programmed into the tag microchip is cross referenced to another number that will be displayed when the tag is scanned.

### **ISO Decimal**

- The EID number is shown, minus the first 0 of the country code and with a space between the country code and the remaining 12 digits.

### **Full ISO**

- The screen will alternate between the 15-digit EID number and six additional digits that are the retag counter, the species identifier and three reserved digits.

### Hexadecimal

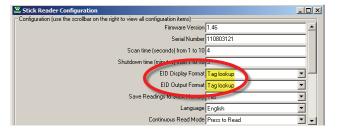
- All the information on the microchip are displayed in hexadecimal on screen , including the retag counter, species identifier and the three reserved digits.

# Working with tag files - Windows

- A 'WYSIWYG' tag has an electronic number (EID) that is the same as the number printed on the outside of the tag.
- A 'non-WYSIWYG' tag has an electronic number (EID) that is different than the number printed on the outside of the tag.
- A tag file is for non-WYSIWYG tags a cross-reference between the EID inside the tag and the number printed on the outside.
- A tag file loaded into the stick reader software allows the stick reader to display the outside number instead of the internal EID number. Your tag manufacturer will supply this file for you when you purchase non-WYSIWYG tags. Learn more about EID and tag formats on page 22 *EID Options*

To load a tag file onto your stick reader:

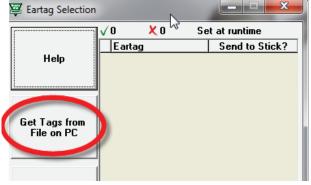
- 1. Turn on the stick reader.
- 2. Open *SDL Connect* on your computer desktop. Click on *Configure Stick*.
- 3. Change EID Display Format to *Tag Lookup*.
- 4. Change EID Output Format to *Tag Lookup*.
- 5. Click *Save Configuration* and *Quit*.



**Note**: The stick reader will still read and print WYSIWYG tag numbers even when it is configured for a tag file and the format is set to Tag Lookup.

₩ SDLConnect v1.5.4 © 2009 - 2015 Shearwell Data Ltd.	₩ SDLConnect v1.5.4 © 2009	- 2015 Shearwell Data Ltd.		
Read Tags from Stick     Erase Tags from Stick       Image: When reading tags, sort them into order     Display	Co Isau Read Tags from Stick	Erase Tags from Stick	Configure Stick	Exit
Show Tag File Options	✓ When reading tags, sort the Tag File Options Hide Tag File Options	m into order	Display tags in: 1 Send Tag File to Stick	Notepad (* Excel (* Erase Tag File from Stick

- 6. The tag file provided by your tag supplier must be saved on your computer.
- 7. Click on the *Tag File Options* button.
- 8. Select Set up Tag File.
- 9. Select *Get Tags from File on PC*. Find the tag file from your tag manufacturer accepted tag formats are Shearwell, Allflex and FarmPlan. For all others please check with Shearwell Support.
- 10. If you do not have a tag file you can make your own text file in Notepad. Call Shearwell Support for more information.



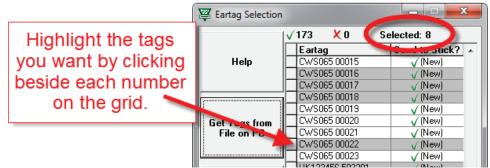
# Working with tag files - Windows

### Select tags to send to the stick reader

- 1. The tag file will open with two columns of information. The eartag column shows the name/number that will be displayed when the tag is scanned by the stick reader.
- 2. The *Send to Stick* column displays a green tick and *(New)* besides each name/number. *(New)* means the number has not previously been sent to the stick reader.
- 3. If you wish to send the entire list of tags to the stick reader click *Save & Exit*.
- 4. Click on the *Send Tag File to Stick* button. A confirmation screen will display the number of tags exported.

🖇 SDLConnect v1.5.4 © 2009	- 2015 Shearwell Data Ltd.			Successful Transfer
Read Tags from Stick	Erase Tags from Stick	Configure Stick	Exit	Number of eartags sent to stick: 17
✓ When reading tags, sort the Tag File Options	em into order	Display tags in:	This will send the entire tag file.	
Hide Tag File Options	Set up Tag File	Send Tag File to Stic	k Erase Tag File from Stick	

5. To send only selected tags to the stick reader highlight the tags you want on the grid. To select multiple tags hold down the control key, or hold down the shift key while selecting the first and last number in a series.



- 6. Click on *Select Tags to Send to Stick*. Tags that have been sent will now have only a green tick beside. All tags will remain on the grid for selection next time the program is opened.
- 7. Tags that are NOT to be sent to the stick can be highlighted on the grid. Click on *Deselect Tags from the List*. A red cross will be visible beside the number when it is deselected.
- 8. Delete tags that you will never want to send to the stick reader to reduce the size of the tag file. Highlight the unwanted tags on the grid and click on *Delete Selected Tags from the List*. If you change your mind you must import the tag file again to restore those numbers to the grid.

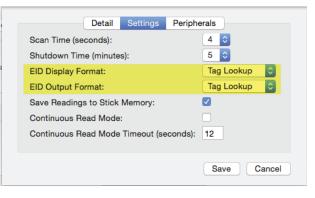
Eartag Selection			×
	V 5 × 19 So Eartag	elected: 0 Send to Stic	Green ticks mean these tags
Help	UK123456 503201	<b>√</b>	
	UK123456 603202 UK123456 703203	✓ ✓	have been sent to the stick.
	UK123456 103204	V V	
	UK123456 203205 UK123456 303206	- V	
Get Tags from File on PC	UK123456 403207	x	Red crosses mean these tags
	UK123456 503208	X	have been excluded.
	UK123456 603209 UK123456 703210	X	
	UK123456 103210	X L	-

# Working with tag files - Mac

- A 'WYSIWYG' tag has an electronic number (EID) that is the same as the number printed on the outside of the tag.
- A 'non-WYSIWYG' tag has an electronic number (EID) that is different than the number printed on the outside of the tag.
- A tag file is for non-WYSIWYG tags a cross-reference between the EID inside the tag and the number printed on the outside.
- A tag file loaded into the stick reader software allows the stick reader to display the outside number instead of the internal EID number. Your tag manufacturer will supply this file for you when you purchase non-WYSIWYG tags. Learn more about EID and tag formats in *EID Options* in the Windows manual.

To load a tag file onto your stick reader:

- Turn on the stick reader. Open **SDL Connect** on your computer desktop.
- Click on *Configure Stick*.
- Change EID Display Format to Tag Lookup.
- Change EID Output Format to Tag Lookup.
- Click Save.



The tag file provided by your tag supplier must be saved on your computer.

- Click on the *Tag File Options* button.
- Select Set up Tag File.

Choose Reader Choser	Reader: SDL400S-2772	1
Read Tags from Stick	Erase Tags from Stick	Configure Stick
Ta	g Read Option Tag File Op	tions
Set up Tag File	Send Tag File to Stick	Erase Tag File From Stick

- Select Get Tags from File.
- Find the tag file from your tag manufacturer accepted tag formats are Shearwell, Allflex and Farm-Plan. For all others please check with Shearwell Support.
- Select the tag file. Click **Open**. All the tag numbers in that tag file will be displayed.

	Eartag ^ Send to Stick			
Get Tags From File		000	Open	
Select Tags to Send to Stick			B Documents	0
soloot lago to colla to calot		Favorites		
Deselect Tags from the List		All My Files	ТХТ	
Delete Tags from the List		A: Applications	CTags.txt	
		Documents		
Save		O Downloads		
Exit				

# Working with tag files - Mac

Select the tags you want to send to the stick reader.

- 1. To send all the tags:
  - Highlight the first tag on the list, hold down the shift key and highlight the last tag on the list.
  - Click Select Tags to Send to Stick a tick will appear beside each selected tag.
  - Click *Save*.
  - Click Send Tag File to Stick. The blue light on the stick reader will flash blue.

	Eartag	Send to Stick?		Eartag	Send to Stick?
Get Tags From File	84267406 106256		Get Tags From File	84267406 106256	
	84267406 106263		g_ · · · · · ·	84267406 106263	
	84267406 106270			84267406 106270	
	84267406 106277			84267406 106277	
Select Tags to Send to Stick	84267406 106284		Select Tags to Send to Stick	84267406 106284	
	84267406 106291			84267406 106291	Image: A start and a start
	84267406 106298			84267406 106298	Image: A start and a start
	84267406 106305			84267406 106305	<b>S</b>
Deselect Tags from the List	84267406 106312		Deselect Tags from the List	84267406 106312	~

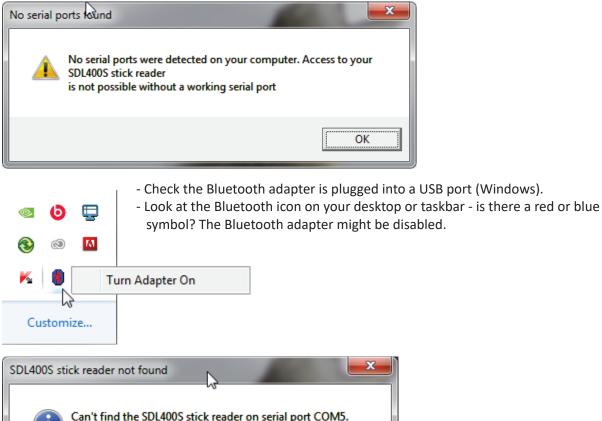
		1
Read Tags from Stick	Erase Tags from Stick	Configure Stick
Ta	g Read Option: Tag File Op	tions
Set up Tag File	Send Tag File to Stick	Erase Tag File From Stick

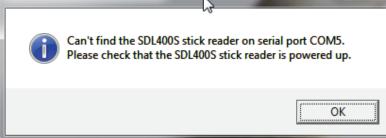
- 2. To send only selected tags to the stick reader highlight the tags you want on the grid. To select multiple tags hold down the command (Apple) key, or hold down the shift key while clicking the first and last number in a series.
  - Click Select Tags to Send to Stick a tick will appear beside each selected tag.
  - Click **Save**.
  - Click *Send Tag File to Stick.* The blue light on the stick reader will flash blue.
- 3. To remove a tag file click on *Erase Tag File from Stick*. This will remove ALL tag files so be sure that none of the tags will ever need to be read again (i.e. animals are dead or sold).

# Trouble-shooting

#### Error messages on the computer

#### 1. No Bluetooth signal





#### 2. No Bluetooth signal

- check the stick reader is turned on and the battery level is good.
- 3. Losing Bluetooth connection between the stick and the computer
- Battery level in the stick reader is getting low insert fresh batteries or stop and recharge.

#### 4. Wrong date and time

- Date and time are automatically sent to the stick reader from the computer software when the stick connects. A stick reader that isn't used very frequently will run down the back-up battery that runs the internal clock. To correct the date and time connect the stick reader and **SDL Connect** before you intend to use it.

If all else fails - remove the stick reader from your Bluetooth Devices and re-pair it.

# Link to StockMove Express for Android

### Note: The red-handled SDL400S stick reader will only link to an Android phone.

#### **Phone Requirements**

*Stock Move Express* for Android requires a smart phone or tablet running Google's Android operating system. The phone or tablet must have Bluetooth and will need Internet access via mobile data or WiFi.

#### **Download StockMove Express**

1. Touch the Google Play Store icon on the home page on your mobile phone or tablet. New users to the Play Store may be required to set up a Google account.



- 2. In the search box at the top, search for 'shearwell stock move'
- 3. Select StockMove Express in the search result, then press Install.

#### **Register with NLMD-LT**

You must have an NLMD account to use StockMove Express.

1. Open StockMove Express. Register as a new user or log in if you already have an account.



- 2. You can also register online at *www.nlmd-lt.co.uk*
- 3. Remember your user name and password you will need them to log into *StockMove Express*

### Connect to your stick reader

- 1. Turn on your stick reader.
- 2. Open StockMove Express.



- 3. Touch *Settings.*
- 4. Touch *Connect to Reader*.
- 5. Touch *Scan for Devices* to find the Bluetooth signal from your stick reader.
- 6. Touch your stick reader Bluetooth number (ex. SDL400-XXXX). See page 11 of this manual for help finding the Bluetooth number.
- 7. Type in passcode **1111.** Touch **OK.** You are ready to scan tags.

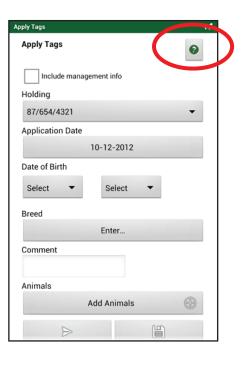
Stock Move Express	Settings	Animals
Shearwell Stock Move Data	Refresh Favourites	SDL400S-1524 00:80:98:EA:DD:25
LADIC33	Refresh Lists	Bluetooth number
	Refresh Holdings	to connect.
	Refresh Licenses	
Cattle Sheep	Refresh Animals	
	Refresh Medicine Stock	
Manage Holdings	Connect to Reader	
Settings 🌣	Simple Sheep Movements	
	Prompt for new animal details	
	Legacy Bluetooth Mode	
To view & report on your data go to http://testil.nimd.co.uk	Help ⑦ About	
		Scan for devices Q <sup>0</sup> (?)

## Link to StockMove Express for Android

### Use the StockMove Express Help Guide



Touch the help icon at the top right-hand corner of any page to open a help screen.



#### Use the online help on NLMD-LT

	NIMD	
	CO.uk	Hard Martin State
	LIVESTOCK TRACING HOME REGISTER FIND OUT MORE	GETTING START
		GETTING STARTE
Go	o to <i>www.nlmd-lt.co.uk</i>	
	ick on <i>Getting Started</i>	
_	-	
	etting Up Import Existing Animals	
	Send Cattle Birth, Movements and Deaths to BCMS	
	Send Sheep Movements to ARAMS (sheep movement database for England)	
	Send Sheep Movements, Tag Applications and Deaths to ScotEID	
•	Add Holdings To Your Account	
•	Change Your Account Details	
•	Change Your Password	
_		
	ecording Move Animals	
	Births / Tag Applications	
	On Farm Deaths	
	Tag Replacement	
	Administer Medicines to Animals	
	Administer Treatment Procedures	
-	Purchase or Dispose a Medicine	
-	a dented of propose a moutome	

# Link to FarmWorks Mobile for Android

- 1. Turn on your stick reader. Look on the label for its Bluetooth number. (Example: SDL400S 1234)
- 2. Open *FarmWorks Mobile*. Touch either the cow or the sheep icon.
- 3. Touch *Statutory*. Select a *Movement* (Example: Private sale)
- 4. Touch *Add Animals*. Touch *Connect* at the top of the screen.
- 5. Touch *Scan for Devices* to find the Bluetooth signal from your stick reader.

Movement	Animals		Not connected	FarmWorks Mobile
Movement	(?)	4 A	=	Devices
Select type of movement	Connect	Ma Ma	inual Tag	
Purchase Private Sale Other Movemen	nt	Add Groups	F	
Date				
3-11-2015				
Sold to				
Select one •				
Add Animals Price Per Animal				
Add Animals				
Save				
	/			
				Scan for devices Q <sup>®</sup> (?)
	0 Animals Selected		(?) Continue	Scan for devices Q <sup>0</sup> (?)

- 6. Find your stick reader's Bluetooth number in the list and press on it.
- 7. For a new connection you will be prompted to enter the pairing PIN.
- 8. Enter the PIN '1111' and tap **OK**.
- 9. Look for the tick and the stick reader icon in the top left of the screen. It will say *Connected* and the stick reader will display a blue light when there is an active connection. The stick reader number will be shown on the top right of the screen.

Animals Decision			Animals		Connected:SD	L400S-1524
SDL400S-1524 00:80:98:EA:DD:25 Press your stick reader's	i Bluetooth pairii	ng request	Connected	2	Manual Tag	6
Bluetooth number to connect.	To pair with: SDL400S-1417		Please scan a tag or press A	Add Groups Add Groups to read a	a group from the stick i	reader.
	Type the device's requi	red PIN:				
	1111					
	Usually 0000 or 1234					
	PIN contains letters or s	symbols				
	You may also need to t other device.	ype this PIN on the				
	Cancel	ок				
Scan for devices Q <sup>0</sup> ?			0 Animals Selected	N CAR	?	Continue

# Link to EID Connect

**EID Connect** is a free download for your Android or Apple device. Go to the Google Playstore<sup>®</sup> (Android) or the App Store<sup>®</sup> (Apple) and search for "Shearwell".

Help is available inside **EID Connect** by touching the menu icon and selecting **About**.

### Get ready

- » Look on the back of your stick reader for a label with its Bluetooth name it will start SDL400S, followed by another four digits. For example: SDL400S 1234
- » Turn on your stick reader.
- » On your mobile device open **EID Connect** by touching the stick reader icon.





### Connect to the stick reader the first time

- » Touch the green *Connect* button. The device will start scanning for the Bluetooth signal from your stick reader.
- » Find and press the stick reader's name on the Bluetooth devices screen.

Disconnected	
Last Read	Manual Tag
Count	Adding to Default Group
Le	ad Stick Group
Local Groups	New Group
Delault Group	
Delete all Groups	Clear all Tags



- » If you are asked for a pairing PIN enter 1111 and press **OK**.
- » The blue light on the stick reader will glow and your stick reader name will be displayed when a Bluetooth connection is made. Now you can start scanning tags or downloading tags that are already saved on your stick reader.

	1 Bluetooth pairing	request
Last Rea	To pair with: SDL400S-2772	
	Type the device's require	I PIN:
Count	1111 Unually 0000 or 1234	
	PIN contains letters or syn	ibols
	You may also need to typ other device.	e this PIN on the
Loca		

	hen it is connected.
Disconnect	Manual Tag
Last Read	
Count	Adding to
0	Default Group
Ū.	Delaux Group
	Load Stick Group
Local Groups	New Group
Default Group	

# Link to EID Connect

### Scan tags into a group

You can create new groups on the app, which are called *Local Groups*. Local Groups can be named anything you want. Groups of tag numbers that are saved on the stick reader are called *Stick Groups*. Stick Groups are named A, B, C, etc.

To add animals to a group on the app:

- » Touch *Connect* to connect your stick reader.
- » Select an existing group from the list or touch *New Group*. Type in a name for the group and touch *OK*. ("Default Group" is the name given to a group if you do not enter another name.)
- » Scan a tag to add each animal to the group. The last number read and the count are displayed.



SDL4005-2772	
Disconnect	Manual Tag
Last Read	
UK024422	20 15073
Count	Adding to
0	Market wethers
Load Sti	ek Greup
Local Groups	New Group
Default Group	
Market wethers	

### Download tag numbers stored on the stick reader

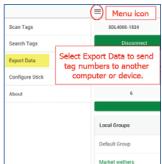
- » If you have already scanned tags into a group saved on the stick reader then touch *Load Stick Group*.
- » Use the dropdown list to select a Local Group to download tags into.
- » All the groups saved on the stick reader will be displayed at the top of the screen. Select a group then touch *Load*. The tag numbers in that stick group will be added to your app group.

Scan Tags		← Stick Groups		← Stick Groups	Select a group from
SDL400S-2772		Connected Device Groups		Connected Device Groups	the stick reader and
Disconnect	Manual Tag	A (7 Animals)		A (3 Animals)	touch Load.
Last Read UK02442	20 15073	Add to Local Group		Add to Local Group	
Count 3	Adding to Market wethers	Use the dropdown errow		Drench may 15	- Load
Local Groups	New Group	to select a group.	BFL ewe lambs	0	
Default Group			Default Group	0	
Market wethers	2		Drench may 15	۲	
Delete all Oroups	Clear all Tags		Heavy lambs	0	

### **Export Data**

You can send tag numbers by email, Bluetooth or other means, depending on what programs you have installed on your device.

- » Touch the menu icon.
- » Touch *Export Data*. Choose a method for sending a file to another device or computer. A csv file with all your groups will be sent to the recipient.



# Link to EID Connect

### View tags

You can view all the tags in any group, with the option to delete one or more tags.

- » In the *Scan Tags* screen select the group you wish to view.
- » Touch the arrow to view the tags.
- » Touch the rubbish bin icon to delete a tag from the group.
- » Change the name of the group by touching *Rename* and entering a new name.

SDL400S-1524	
Disconnect	Manual Tag
Last Read	
UKO	244220 18996
Count	Adding to
5	BFL even
	Loud Slick Group
Local Groups	New Group
Sala	ct a group then touch
BFL eves	arrow to view all the
Default Group	the group then bouch arrow to view all the tags in that group.

BFL ewes	Rename Delet
UK0386009 01515	
UK0386009 00208	
UK0244220 18763	
UK0244220 15073	
UK0244220 18996	

### Search for a tag

Find a tag that is in a group on the app (Local Group).

- » Touch the menu icon.
- » Touch Search Tags.
- » Scan a tag or type the number in as Manual Tag (you must enter the entire number exactly as it is printed on the tag, including the space).
- » The groups that contain that tag number will be displayed. Then touch the arrow to *View Group* if you wish to delete that tag from the group.

SDL400S-1524			
Disconne	ct	Manual Tag	
Last Read			
Uł	(024422	0 18996	
Found in Local Grou	ups		
BFL ewe lambs		g was found in two groups.	> >

### Configure the stick reader

Some stick reader settings can be changed here.

- » Turn on your stick reader. Connect to your app.
- » Touch the menu icon.
- » Touch Configure Stick.
- » **Auto Connect on Startup** means the app will try to connect to your stick reader automatically whenever the stick reader is turned on.
- » **Continuous Read Mode** means the stick is constantly scanning for tags without you having to push the scan button.
- » Changing the **Display Format** and **Output Forma**t might be necessary if you are linking your stick reader to another device (such as a weigher) that needs the tag number in a certain format.
- » For more information on configurations see your stick reader manual.

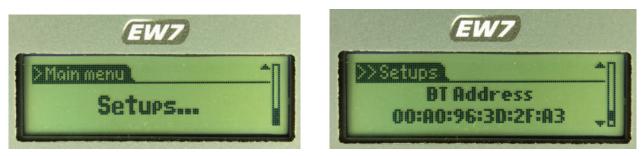
# Link to a weigher - EziWeigh7

The SDL400S stick reader can be linked to a weigher that has Bluetooth. Devices with Bluetooth will have the Bluetooth symbol on the front.



The first step to link your stick reader to an EziWeigh7 is to find the Bluetooth ID of the weigher.

- 1. Push the power button to turn on the weigher.
- 2. Push the *Menu* button.
- 3. Use the bottom arrow to scroll down through the functions to *Setups...*



- 4. Push *Enter*. Use the bottom arrow to scroll down through the functions to BT Address
- 5. Write down the BT address on a piece of paper, leaving out the colons. The example in the photo above would be BT Address 00A0963D2FA3.
- 6. Press the *Escape* button twice to exit.

# Link to a weigher - EziWeigh7

The second step to link your stick reader to an EziWeigh7 weigher is to change the configuration on your stick reader.

- 1. Make sure the Bluetooth adapter is plugged into a USB port on your computer (Windows).
- 2. Turn on the stick reader.
- 3. Click on the *SDL Connect* icon on your computer desktop. The blue light on the stick reader should flash as the Bluetooth connection is made.
- 4. Click on *Configure Stick*.
- 5. For a Windows computer, scroll down to find the *Weigher Bluetooth ID* field. Type in the Bluetooth ID number for your weigher.
- 6. Click *Save Configuration* and *Quit*.

1	🐺 Stick Reader Configuration				
ſ	Configuration (use the scrollbar on the right to view all configuration items) Language   English				
l	Continuous Read Mode Press to Read				
ł	Continuous Read Mode Timeout (seconds) from 1 to 30 12				
l	Printer Type AP1300BT				
ł	Label Printing Allowed No				
	Label Printing On No				
	Print in Order Print as read				
ł	Prints, statetooth 10 100000002000				
	Weigher Bluetooth ID 00A0963AB4D8				
١	Save Configuration Quit				
	Save Configuration Quit				

- 7. On a Mac computer, click on *Peripherals*.
- 8. Type in the Bluetooth ID number for your weigher in the *Weigher Bluetooth ID* field.
- 9. Click Save.

Detail	Settings Peripherals
Printer Type:	AP1300BT 🗘
Label Printing Allowed:	
Label Printing On:	
Print in Order:	Print in order ≎
Printer Bluetooth ID:	000780087934
Weigher Bluetooth ID:	00A0963AB4D8
	Save Cancel

# Link to a weigher - EziWeigh7

- » Turn off your stick reader.
- » Turn the stick reader back on, pressing and holding the green button to view the menu options.
- » Release the button at *Link to weigher?* The blue light on the stick reader will glow when the Bluetooth connection is made.
- » The stick reader and weigher are now linked when a tag is scanned by the stick reader the EID number will be sent to the weigher and be displayed on the screen.

TRU-TEST.
REC
EW7 0826024422019077 2t EID tag number
1 2 3 I- ABC DEF

# Link to a weigher - ID3000

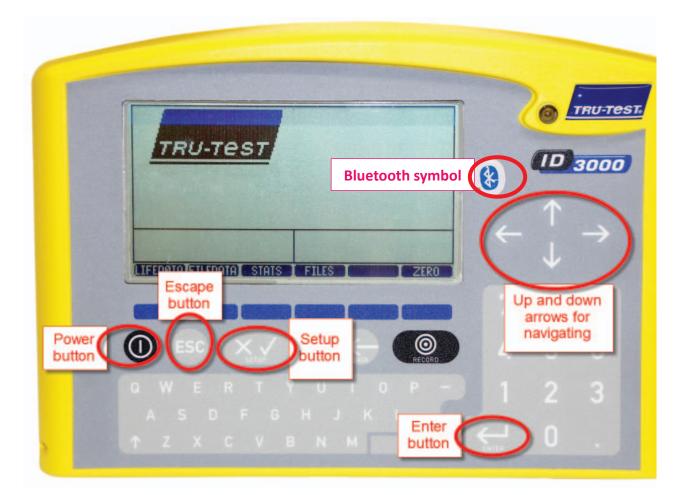
The SDL400S stick reader can be linked to a weigher that has Bluetooth. Devices with Bluetooth will have the Bluetooth logo on the front. Weighers like the Tru-Test ID3000 purchased from Shearwell will have a label on the back with the Bluetooth information.





The first step to link a stick reader to an ID3000 weigher is to change the configuration on the weigher.

- 1. Press the power button to turn on the weigher.
- 2. Press the *Setup* button. The *Weighing Screen Setup* opens.

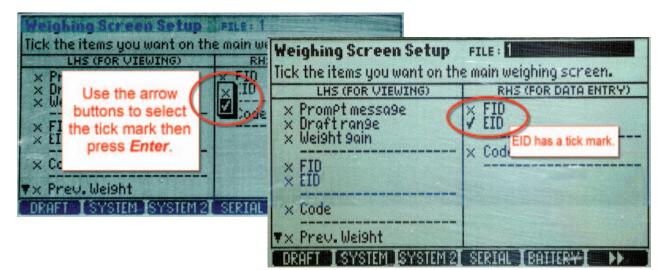


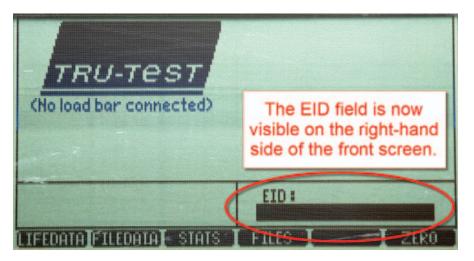
## Link to a weigher - ID3000

3. On the weighing setup screen, use the up and down arrows to move around the screen. "RHS" means right-hand side; "LHS" means left-hand side.

- 2	LHS means eft-hand side.				<b>RHS</b> means right-hand side.	
Weighing Screen Setup FILE : The state of the setup of the setup Tick the items you want on the main weighing screen.						
LHS ( × PromPt × Draftr × Weight	ange	<	××	RH FID EID	IS (FOR DATA ENTRY	<u>)</u>
× EID	Highlight on and press <i>Enter</i> butt	the		Code		
× Code						

- 4. Use the arrows to select *EID*. Press the *Enter* button and use the arrows to select the tick mark. Press the *Enter* button to make the selection.
- 5. Press the *ESC* button to exit the setup screen. The EID field should now be visible on the front screen.





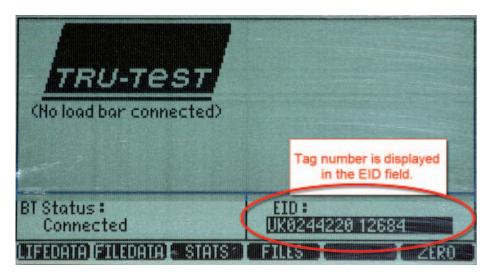
# Link to a weigher - ID3000

The second step to link your stick reader to an ID3000 weigher is to change the configuration on your stick reader.

- 1. Make sure the Bluetooth adapter is plugged into a USB port on your computer (Windows).
- 2. Turn on the stick reader.
- 3. Click on the *SDL Connect* icon on your computer desktop. The blue light on the stick reader should flash as the Bluetooth connection is made.
- 4. Click on *Configure Stick*.
- 5. For a Windows computer, scroll down to find the *Weigher Bluetooth ID* field. Type in the Bluetooth ID number for your weigher.
- 6. Click *Save Configuration* and *Quit*.

🖉 Stick Reader Configuration	
Configuration (use the scrollbar on the right to view all configuration items)	
Language English	
Continuous Read Mode Press to Read	
Continuous Read Mode Timeout (seconds) from 1 to 30 12	
Printer Type AP1300BT	<b>•</b>
Label Printing Allowed No	
Label Printing On No	Detail Settings Peripherals
Print in Order Print as read	
Britter succostn ID U00000002000	Printer Type: AP1300BT 🗘
Weigher Bluetooth ID 00409634B4D8	Label Printing Allowed:
Save Configuration Quit	Label Printing On:
	Print in Order: Print in order ≎
	Printer Bluetooth ID: 000780087934
	Weigher Bluetooth ID: 00A0963AB4D8

- 7. On a Mac computer, click on *Peripherals*.
- 8. Type in the Bluetooth ID number for your weigher in the *Weigher Bluetooth ID* field.
- 9. Click Save.
- » Turn off your stick reader.
- » Turn the stick reader back on, pressing and holding the green button to view the menu options.
- » Release the button at *Link to weigher?* The blue light on the stick reader should flash as the Bluetooth connection is made.
- » The stick reader and weigher are now linked when a tag is scanned by the stick reader the EID number will be sent to the weigher and be displayed on the screen.



## Link to a weigher - Te Pari

#### STEP 1: Find the Bluetooth ID of the weigher.

- 1. Push the power button to turn on the weigher.
- 2. Push the *Setup/Weigh* button.
- 3. Use the down arrow to scroll down through the functions to Page 2.
- 4. On Page 2 of 3, scroll down to System Information. Press the Record/Select button.

WIFI/C1 BAUDRATE: 96 COM 1 POVER: OF COM PORT 2 MODE: SI	D READ/PC CONNECT 00 F MPLE WEIGHT 00 N D READ/PC CONNECT	SYSTEM INFO FIRMWARE VERSION: BLUETOOTH ADDR: BLUETOOTH STATE: BLUETOOTH HOST: BLUETOOTH HOST: BLUETOOTH PIN: WIFI MAC ADDR: WIFI MAC ADDR: WIFI AP NAME: WIFI DEVICE 1: WIFI DEVICE 1: WIFI DEVICE 2: WIFI DEVICE 2: WIFI DEVICE 3: WIFI DEVICE 4: MEMORY USAGE: FLASH MEMORY:	B3.01.01 Aug 12 2015 00:06:66:6C:9B:DA DISCONNECTED 00:00:00:00:00 1234 · END 00:06:66:35: SSID + iScale 10.10.10.1:2000 58 RECORDS 4M OK
Press Select to setup Syst	em Settinas	MODEL T20e	TS TO EXIT

- 5. Find *Bluetooth Addr.* Write down the BT address on a piece of paper, leaving out the colons. The example in the photo above would be BT Address 0006666C9BDA.
- 6. Press the *Setup or the Stats* button to exit.

#### STEP 2: Change the configuration on your stick reader.

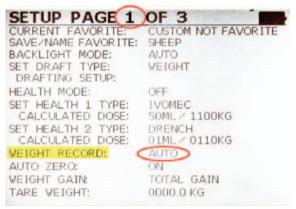
- 1. Make sure the Bluetooth adapter is plugged into a USB port on your computer (PC only).
- 2. Turn on the stick reader.
- 3. Click on the *SDL Connect* icon on your computer desktop. The blue light on the stick reader should flash as the Bluetooth connection is made.
- 4. Click on *Configure Stick*.
- 5. Scroll down to find the *Weigher Bluetooth ID* field. Type in the Bluetooth ID number for your weigher. Click *Save Configuration* and *Quit*.
- 6. On a Mac computer, click on *Peripherals*.
- 7. Type in the Bluetooth ID number for your weigher in the *Weigher Bluetooth ID* field.
- 8. Click Save.

🐺 Stick Reader Configuration		×			
Configuration (use the scrollbar on the right to view all configuration items)					
Language	English 💌				
Continuous Read Mode	Press to Read 🔹				
Continuous Read Mode Timeout (seconds) from 1 to 30	12				
Printer Type	AP1300BT -	]			
Label Printing Allowed	No	- 1			
Label Printing On	No		Detail	Settings Periph	erals
Print in Order	Print as read				
Printer succord ID	00000000000	Printer Type:		AP1300BT ᅌ	
Weigher Bluetooth ID	00A0963AB4D8	Label Printing	Allowed:		
Save Configuration Quit		Label Printing	On:		
		Print in Order	:	Print in order 🗘	
		Printer Blueto	oth ID:	000780087934	
		Weigher Blue	tooth ID:	00A0963AB4D8	

# Link to a weigher - Te Pari

### STEP 3: Change the configuration on the weigher.

- 1. Press the power button to turn on the weigher.
- 2. On Page 1 highlight *Weight Record*. Press the *Record/Select* button multiple times to scroll through the options; select **AUTO**.



- 3. Use the down arrow to scroll down through the functions to Page 2.
- 4. On Page 2 of 3, highlight *Wifi/Com 1 Mode*. Press the *Record/Select* button multiple times to scroll through the options. Select **EID READ/PC CONNECT**. Use the down arrow to move to the next field.
- 5. Highlight *Wifi/C1 Baudrate*. Press the *Record/Select* button multiple times to scroll through the options. Select **9600**.
- 6. Highlight COM1 Power. Press the Record/Select button to select OFF.
- 7. Highlight *Com Port 2 Mode*. Press the *Record/Select* button multiple times to scroll through the options. Select SIMPLE WEIGHT.
- 8. Highlight *COM2 Baudrate*. Press the *Record/Select* button to select **9600**.
- 9. Highlight *WIFI/C2 Power*. Press the *Record/Select* button to select **ON**.
- 10. Highlight *Bluetooth Mode*. Press the *Record/Select* button to select EID READ/PC CONNECT.
- 11. Highlight *Bluetooth Power*. Press the *Record/Select* button to select *ON*.

SETUP PAGE 2 OF 3	SETUP PAGE 3 OF 3
WIFI/COM 1 MODE: EID READ/PC CONNECT WIFI/CI BAUDRATE: 9600 COM 1 POWER: OFF COM 2 BAUDRATE: 9600 WIFI/C2 POWER: ON BLUETOOTH MODE: EID READ/PC CONNECT BLUETOOTH POWER: ON SYSTEM SETUP: SYSTEM INFORMATION:	ID       MODE:       EID       ONLY         ENABLE       AUTO       VID:       OFF         AUTO       VID       START:       VID001         ENABLE       PID:       NO         PID       DEFAULT:       NO         CODE 1       TITLE:       CODE1         CODE 1       DEFAULT:       ENABLE CODE 2:       NO         CODE 2       TITLE:       CODE2       CODE2         CODE 3       DEFAULT:       ENABLE CODE 3:       NO         CODE 3       TITLE:       CODE3       CODE3         CODE 3       DEFAULT:       LOAD       CODES WITH       PREV
Press Select to setup System Settings	Enter Default PID. Blank for None

- 12. Use the down arrow to scroll down through the functions to Page 3.
- 13. Highlight ID Mode. Press the Record/Select button to select EID ONLY.
- 14. Press the *Setup /Weigh* button to exit the setup screen. The EID field should now be visible on the front screen.

#### Refer to your Te Pari manual for saving files and downloading to your computer.

# Contact us

For technical support telephone: You can email technical support at: support@shearwell.co.uk For general enquiries telephone: Fax: Alternatively visit our website at:

+44 (0) 1643 841814 +44 (0) 1643 842100 +44 (0) 1643 841628 www.shearwell.co.uk

Lines are open from Monday to Friday between 8am - 5pm GMT.

Certification



### FCC ID: YVSSDL400S

The SDL400S complies with parts15.207 and 15.209 of the FCC rules CFR47:2009. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

The SDL400S operates at a frequency of 134.2KHz and complies with part 15C emission requirements. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference in which case the user will be required to correct the interference at his own expense.

#### IC: 8856A-SDL400S

The SDL400S also complies with Industry Canada RSS-210 issue 7. This SDL400S complies with Industry Canada licence-exempt RSS standard (s).

