

GPScanID Software

User Manual

(Version 2.0)

Please read these instructions thoroughly before use and always keep accessible

GPScanID Limited

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1. Getting Started

The GPScanID Software enables users to transfer the RFID records in GPScanID Series Readers to the host Windows[®]-based computer for data processing, storage and perform transactions to online databases. The software also allows users to configure the parameters of the GPScanID Series Readers via the supplied Serial Cable or Bluetooth. It is designed with simple operations in mind.

Before using the software, please ensure the personal computer (PC) meets the following system requirements as detailed below.

A serial COM port (such as USB or RS-232) or Bluetooth is required to connect the reader with a PC. It is highly recommended to use serial connection when connecting the reader with the PC for the first time. Here are the main steps to operate the software:

- (1) Download the **GPScanID Software**;
- (2) Install and launch the GPScanID Software, and
- (3) Power on the reader and connect it to the PC with the data/charging cable, such as the GPS100-Cable or GPS150-Cable

1.1 System Requirement

The PC must meet the following minimum system requirements before installing the software:

Central Processing Unit (CPU)

- 1 Giga Hertz (GHz) or faster 32-bit (x86) or 64-bit (x64) processor with SSE2 instruction set

Internet Connectivity

System Memory

- Minimum 4GB

Disk Space

- Minimum 400MB

Display

- 1280 x 768 screen resolution or higher

Operating Systems

- Windows 7 (32 & 64 bit);
- Windows 10 (32 & 64 bit);
- Windows 11 (64 bit).

Supported System Environments

- Microsoft .NET Framework 4.8 or higher

1.2 Getting the Software

The software can be downloaded from the following website⁺:

https://www.GPScanID.com/download/software or via the QR Code



Click the latest version to download.

You can save the software in an easily accessible location, such as the Desktop.

⁺ It is recommended to use the Microsoft Edge[™] web browser to download for stability and security settings.

1.3 Installation

To install the software, download the latest software per Section 1.2 to your PC:

GPScanID_Setup_Vx.x.zip

You will need a file expansion program, such as WinZip, or an online tool to extract the .zip file to .exe format.

After the file is extracted, double-click the file **GPScanID_Setup.exe** to begin installation.



The following screen appears and prompts the user to select the location where the software will be installed. (Unless you have specific file location requirements, you can save the file to the suggested program file location.)

Setup - GPScanID SOFTWARE version 2.1	-		×
Select Destination Location Where should GPScanID SOFTWARE be installed?			
Setup will install GPScanID SOFTWARE into the following folder.			
To continue, click Next. If you would like to select a different folder, click Browse. C:\Program Files (x86)\GPScanID SOFTWARE	Br	owse	
At least 96.1 MB of free disk space is required.			
<u>N</u>	ext >	Can	cel

Click <u>Next > to continue</u>.

The following window appears to prompt the user for a **Folder name** in which the software will be placed as a program shortcut in the Windows[™] **Start Menu**. (The default name is GPScanID SOFTWARE).

Setup - GPScanID SOFTWARE version 2.1		-		
Solort Start Manu Falder			6	
Where should Satur place the program's charteuts?				
where should setup place the program's shortcuts?			¢	
Setup will create the program's shortcuts in the following St	art Menu folde			
To continue, click Next. If you would like to select a different folde	r, click Browse			
GPScanID SOFTWARE		Brow	se	
Don't create a Start Menu folder				
Don't create a Start Menu folder				

Press **<u>N</u>ext >** to continue.

Next, the user is prompted whether to create a **Desktop Shortcut**.

Click the check box if you wish to create it.

Setup - GPScanID SOFTWARE version 2.1		-		×
Select Additional Tasks Which additional tasks should be performed?			6	
Select the additional tasks you would like Setup to perform while ins Next.	talling GPSca	nID SOFTWARE,	then click	6
Additional shortcuts:				
Create a desktop shortcut				
	< <u>B</u> ack	Next >	Can	cel

Click **<u>N</u>ext >** to continue.

The following screen summarizes the tasks to be performed in the installation.

Press < **<u>B</u>ack** to go back for any modifications and/or,

Press Install to proceed with the installation.



The following screen appears and indicates the progress of the installation until it is completed.

Setup - GPScanID SOFTWARE version 2.1	-	□ ×
Installing		
Please wait while Setup installs GPScanID SOFTWARE on your computer.		Č4
Extracting files		
C:\Program Files (x86)\GPScanID SOFTWARE\icudtl.dat		
		Cancel

After installing the main software, installation of Microsoft Visual C++ follows.

If your PC does not have Microsoft Visual C++ installed, the following screen appears. Check the 'I agree to the license terms and conditions' box, then press **Install**.



If your PC already has Microsoft Visual C++ installed, the following screen appears. Press **<u>R</u>epair** to update the settings.



Press **Close** when setup is completed.



Setup - GPScanID SOFTWARE version 2	.1	-		×
	Completing the GPScanID SOFTWARE Setup has finished installing GPScanID SOFTWARE or application may be launched by selecting the installed Click Finish to exit Setup. 2 Launch GPScanID SOFTWARE	Setup your con shortcuts	Wizaro	e
	Eint	sh		

The following screen appears when installation is completed. Click **<u>Finish</u>** to exit.

Depending on the Windows[™] version in your PC, certain drivers may need updating. Please refer to Section 1.4.2 for more details.

- **Note 1**: If your PC is already installed with an earlier version of the GPScanID Software, some of the above prompts may not be shown. The installer will simply update your Software in the same location with the existing folder name.
- Note 2: Depending on the Windows[™] version, the web browser and the security settings in your PC, you may encounter the following warning messages during software installation. We have listed the corresponding actions below. It is recommended to use the Microsoft Edge[™] web browser for downloading the software.

The following security warnings may appear when executing **GPScanID_Setup.exe**:

User Account Control					
Do you want to allow this app from an unknown publisher to make changes to your device?					
GPScanID_Setup.exe					
Publisher: Unknown File origin: Hard drive on this compu	ter				
Show more details					
Yes	No				

a.

Action: Press **Yes** to continue running the software.



Action: Press <u>More info</u> Then press **Run anyway** in the next screen to proceed



1.4 Establish Connection

The next step is to establish a connection between the reader and the PC. The GPScanID Series RFID reader supports both serial connection (such as USB or RS-232) or wireless connection (such as Bluetooth). The GPScanID Software will always try to establish a serial connection first. If this fails, the user has the option to: i) Work **Offline** (without a reader), ii) establish **Bluetooth** connection, iii) **Update** drivers or iv) **Try Again** to connect

1.4.1 Serial Connection

If the reader is connected to the PC via the serial cable (either USB or RS-232), the software will automatically search the serial COM port once it is launched. If the COM port is available and connection is successful, the following **Connected to Reader** message will be displayed. Click **OK** to continue.

GPScanID SOFTWARE VERSION V2	2.1							- 0	i X
O Current O Recycle Bin	All	Session ID	Quantity	Session Name	Date	Progr	255	Status	
Open									
Save									
Create Session									
Download Sessions									
Clear		Serial Port Conr	ection						
Delete	Tag V	Testing	COM8device fo	und					
Restore		get read get rf ve	er versionOK rsionOK						
Upload to Reader		get read get ID d	er serial numbe splay format0	rOK K					
Print		set date	OK OK						
Setup									
Help									
Exit									
		Conn	ected to Keader						
			ОК	Bluetooth	Update Try	Again			
Connected COMP							Mainhas	ANA PE NA Co	cial m bio
connected como							Mainboi	TOUTINE, NET TRA, SE	······

If the connection failed, the following message is displayed.



Please check the port and physical connections between the reader, cable and PC.

From the Reader, select Settings / Connection / Cable / Connect To PC.

Press Try Again to re-connect.

1.4.2 Update (Drivers)

Some Windows 11 PC's may have USB driver compatibility issues which causes the reader unable to connect.

When this happens, press **Update** in the following window. Two USB drivers will be updated.

Serial Port Connection	
NO ports found	
No Readers found, please check: -Reader is powered on and -Reader is connected to the PC via the Data/Charging Cable	
Offline Work offline without Reader Bluetooth Connect Reader via Bluetooth Update Update driver, PC needs to restart Try Again Try reconnecting again	
Offline Bluetooth Update Try Again	

Press **INSTALL** when the following screen appears. Press **x** on the top right-hand corner to close it when installation is completed.

PL2303 USB-t	o-Serial Driver Installer Pr	
	Device Driver I Select INF	nstall / UnInstall
	UNINSTALL	USB-SERIAL CH340 01/18/2022, 3.7.2022.01
	HELP	
		(Back Next) Cancel

Press **Next >** when the following window appears.

PL2303 USB-to-Serial Driver Installer Program	1	×
5	Welcome to the InstallShield Wizard for PL-2303 USB-to-Serial	
	The InstallShield Wizard will install PL-2303 USB-to-Serial on your computer. To continue, click Next.	
	< Back Next > Cancel	

You may need to reboot your PC after the second installation is completed. The reader should now be able to connect.

1.4.3 Bluetooth Connection

If serial connection is unavailable, you have the option to connect via Bluetooth.

Serial Port Connection						
NO ports found						
No Readers found, please check: -Reader is powered on and -Reader is connected to the PC via the Data/Charging Cable						
Offline Work offline without Reader Bluetooth Connect Reader via Bluetooth Update Update driver. PC needs to restart Try Again Try reconnecting again						
Offline Bluetooth Update Try Again						

To connect via Bluetooth, turn on the Bluetooth function in both the PC and the Reader (refer to the Reader's User Manual for detailed instructions). Press **Bluetooth** and the following window appears:

Bluetooth Connection		
Sea	rch	Connect
Name True Wireless Earphone GP5canID G100 G80	Address 78A7EB3AF92F 88680FD982F9 88680FD98411 88680FF7C07E	E

- **[Search]:** Search for nearby Bluetooth devices, then select the reader you wish to connect with.
- [Connect]: Connect to the selected reader.
- [Exit]: Exit the Bluetooth connection screen and operate the software without connecting a reader.

If Bluetooth connection is established successfully, the following screen appears:

Sea	irch	Connect
Name True Wireless Earphone GPScanID G100 G80	Address 78A7EB3AF92F 88680FD982F9 88680F998411 886680FF7C07E	GPScanIDConnected get reader versionOK get reader serial numberOK set dateOK set timeOK Connected to Reader Reader Update function is disabled in bluetooth connection mode

Press **OK** to continue.



If Bluetooth connection cannot be established, the following screen appears:

Check all Bluetooth settings in the PC and the reader, and they are paired.

Users can either:

- (1) Press **Search** to search again, then select the reader and press **Connect** to try connecting again; or
- (2) Press Exit to exit this window to operate the software without connecting any reader.

Please note that reader firmware updates can only be completed with serial connection. Bluetooth connection cannot be used for updates.

1.5 Country Selection

Before entering the main screen of the software, you need to select the country where this software is used. This sets up i) the date format for display in the software and saving to external .csv files, and ii) the country database to record livestock transactions.

For Australia and New Zealand, date format is set as: DD/MM/YYYY HH:MM:SS

For Global, date format is set as: YYYY/MM/DD HH:MM:SS

To change the date format, simply close the software and launch it again.

To change the country database, please refer to Section 3.11.3.

	×
Select the country where this software is used	I
Please select a country	
🔿 🏣 Australia	
○ 🔤 New Zealand	
•••• Global	
ОК	(

* At the time of publishing this manual, only Australia and New Zealand are set up. We will be adding further countries through software updates.

2. Main Screen

Once the software is launched and a connection is established, all sessions in the reader will automatically be downloaded. There are 4 main sections making up the Main screen:

- 1. Function Sidebar;
- 2. Session Workspace;
- 3. Tap/Map Workspace; and
- 4. Status Bar.

2.1 Function Sidebar

The Function Sidebar lists all functions available to the user. If a function button is greyed-out, it is unavailable. For example, the **Delete** and **Restore** buttons below.

GPScanID SOFTWARE VERSION V.	2.1									-	ð	Х
O Current O Recycle Bin		All	Session ID	Quantity	Session Name	Date	Progress	Status				
Open		۱.	0001	5		13-10-2020 12:15:46		Downloaded				
Save			0002	5		13-10-2020 14:00:07		Downloaded				
Create Cossian			0003	6		13-10-2020 14:08:41		Downloaded				
Create Session			0004	2		13-10-2020 14:17:38		Downloaded				
Download Sessions			0005	3	ABC	13-10-2020 14:29:41		Downloaded				
Clear			0006	2		13-10-2020 15:08:25		Downloaded				
Delete		Tag \	Workspace •									
Restore												
Upload to Reader												
Print												
Setup												
Help												
Exit												
Status Connected COMS							Mainheart 0100 D	0000006 PE 1400	PE POOA02105	Casial #	G1000C0	
status:Connected COM5							Mainboard: G100_R0	UAUSVUD, RF: M100_	KF_KUUA03V06	, serial #:	G 1000G0	048

Please note: To access the country-specific database:

- (1) Press the **Setup** button.
- (2) In the **Upload Configuration** section, select a country from the **Country** pulldown menu and enter the appropriate login credentials.
- (3) Press Confirm to proceed.

2.2 Workspaces

There are 2 workspaces in the Main Menu:

(1) Session Workspace

The workspace lists all the Current Session IDs that have been downloaded to the software or cleared Session IDs stored in the **Recycle Bin**. The following information is available for each session:

- **Session ID:** The session number allocated when it was created.
- **Quantity:** The number of IDs stored in the session.
- Session Name: If a specific Session Name was created for the session, it will display in this field.
- **Date:** Timestamp when the session was created.
- **Progress:** Displays the session download progress.
- **Status:** The status of the session.

Q GPScanID SOFTWARE VERSION V2.	1							-	0	×
Current O Recycle Bin	All	Session ID	Quantity	Session Name	Date	Progress	Status			
Open	•	0001	5		13-10-2020 12:15:46		Downloaded			I.
Save		0002	5		13-10-2020 14:00:07		Downloaded			
		0003	6		13-10-2020 14:08:41		Downloaded			
Create Session		0004	2		13-10-2020 14:17:38		Downloaded			
Download Sessions		0005	3	ABC	13-10-2020 14:29:41		Downloaded			
Clear		0006	2		13-10-2020 15:08:25		Downloaded			
Delete	Tag	Workspace 🝷								
Restore										٦
Upload to Reader										
Print										
Setup										
Help										
Exit										

(2) Tag/Map Workspace

This workspace shows the details of the IDs recorded in a session. To view the ID details, click on a **Session ID** in the **Session Workspace**.

You can also toggle between **Tag Workspace** (shown below to display ID details of the selected session) and **Map Workspace** (to display the location of the tags in Google Maps^m, if recorded) using the $\mathbf{\nabla}$ pull-down menu.

Tag Workspace shows the detailed list of all IDs stored in the selected session. The following information is displayed:

- **Count:** Location of ID stored in the session.
- **RFID:** The recorded RFID number.
- **GPS:** GPS co-ordinates of the tag at the time it was read, if GPS was activated and recorded.
- **Date:** Timestamp when the tag was recorded.
- **UF1 to UF4:** Optional User Fields (UF) 1 to 4 for user comments. See Section 3.9 for further details.

OPScanID SOFTWARE VERSION V2	2.1														-	D	×
O Current O Recycle Bin	All	Session	ID	Quantity	Session Name		Date		Progr	ess		Sta	tus				
Open	•	000	1	5		13-1	0-2020 12:15:46		-			Dowr	nloaded				
Save		000	2	5		13-1	0-2020 14:00:07					Dowr	nloaded				
		000	3	6		13-1	0-2020 14:08:41					Dowr	nloaded				
Create Session		000	4	2		13-1	0-2020 14:17:38					Dowr	nloaded				
Download Sessions		000	5	3	ABC	13-1	0-2020 14:29:41					Dowr	nloaded				
Clear		000	6	2		13-1	0-2020 15:08:25					Dowr	nloaded				
Delete	Tag	Workspace	•														
Restore		Count		RFID	GPS		Date	UF	1	UF2	UF	F3	UF4				
Unload to Reader		1	999 0	0000000358	-26.691973,152.4	509	13/10/2020 12:16:	10 Ang	Jus	825kg	Vacci	ne-A	Feedlot5				
opioad to Reader		2	951 0	13001089645	-26.691973,152.4	509	13/10/2020 12:16:	13 Brahr	man	769kg	Vacci	ne-B	FarmB12				
Print		3	951 0	13001004942	-26.691973,152.4	509	13/10/2020 12:16:	17 Gelby	vieh	922kg	Vacci	ne-C	John'sFarn	n			
Setup		4	951 0	00502220320	-26.691973,152.4	509	09/03/2021 14:47:4	43									
Help		5	951 0	15000001431	-26.691973,152.4	509	09/03/2021 14:48:	00									- 1
Exit																	
Status:Connected COM5										Mainboard: G	100_R00)A08V06	, RF: M100_R	F_R00A03V	06, Serial 4	⊧: G10000	50048

Map Workspace displays the location of the tag at the time it was read, if GPS was activated and recorded.

GPScanID SOFTWARE VERSION V2.1 • Current O Recycle Bin All Session ID Session Name Progress Status Quantity Date Open 0002 13-10-2020 14:00:07 Downloaded Save 13-10-2020 14:08:41 0003 Downloaded Create Session 0004 13-10-2020 14:17:38 Downloaded Download Sessions 0005 ARC 13-10-2020 14:29:41 Downloaded 0006 13-10-2020 15:08:25 Downloaded Clear Show All Sessions Workspace Delete Restore Murgo Brin Upload to Reader 82 Print Durono Ø 143 Setup Session 1 1 5 Tags Help Exit Suns e Coast C 133 02 Brible Island ÷ MI 49 68 A3 MI ected COM5

To toggle between **Tag Workspace** to **Map Workspace**, use the $\mathbf{\nabla}$ pull-down button to select.

In Map Workspace, you can use the pull-down menu to select the following display options:

- [Show All Sessions]: To show the location of all sessions.
- [Hide All Sessions]: To hide the location of all sessions.
- [Show Selected]: To show the location of the selected session.

You can use the + / - buttons to zoom in / out the map and navigate the same way as Google Maps[™].

You can also print the location of the sessions in the map by pressing the **Print Map** button.

2.3 Status Bar

The status bar at the bottom left of the window displays the connection status, whether via **COM port**, **Bluetooth**, or **Disconnected**. The bottom right corner shows the Reader's Mainboard, RF Firmware Versions and its Serial Number respectively.

rrent 🔿 Recycle Bin	All	Session ID	Quantity	Session Name	Date	Progress	Status	
Open	Þ	0001	5		13-10-2020 12:15:46		Downloaded	
Save		0002	5		13-10-2020 14:00:07		Downloaded	
Croate Cossien		0003	6		13-10-2020 14:08:41		Downloaded	
Create Session		0004	2		13-10-2020 14:17:38		Downloaded	
ownload Sessions		0005	3	ABC	13-10-2020 14:29:41		Downloaded	
Clear		0006	2		13-10-2020 15:08:25		Downloaded	
Delete	Tag \	Workspace •	•					
Restore								
Jpload to Reader								
Print								
Setup								
Help								
Exit								
	11							
	11							
	11							
	11							
	11							
	11							
	11							
	11							
	11							

3. Operations

3.1 Memory Space

The reader supports 2 memory spaces: **Current** and **Recycle Bin**. You can choose the memory space you wish to work with by selecting either **Current** or **Recycle Bin**.

GPScanID SOFTWARE VERSION V2.1	1							— (5	×
Current O Recycle Bin	All	Session ID	Quantity	Session Name	Date	Progress	Status			
Open	•	0001	5		13-10-2020 12:15:46		Downloaded			
Save		0002	5		13-10-2020 14:00:07		Downloaded			
Courts Courting		0003	6		13-10-2020 14:08:41		Downloaded			
Create Session		0004	2		13-10-2020 14:17:38		Downloaded			
Download Sessions		0005	3	ABC	13-10-2020 14:29:41		Downloaded			
Clear		0006	2		13-10-2020 15:08:25		Downloaded			
Delete	Tag	Workspace •								
Restore										
Upload to Reader										
Print										
Setup										
Help										
Exit										
Producer Transfer										
Third Party Transfer										
Tag Bucket										
Tag Replacement										
<i></i>										

- **Current**: Displays the current sessions downloaded from the reader. This is the default memory space displayed in the software.
- **Recycle Bin**: This is a temporary memory space where cleared sessions are stored. Sessions in the **Recycle Bin** are only assessable from this software and not from the reader. They can be:
 - Deleted permanently (see Section 3.7);
 - Restored back to the Current memory space (see Section 3.8);
 - Stored temporarily until the **Recycle Bin** overflows (for example, over 1000 sessions or the memory is full).

As sessions stored in the **Recycle Bin** will be deleted when the maximum memory space or number of sessions are exceeded, it is highly recommended to restore them back to the **Current** Memory Space or save them in the PC (see Section 3.3).

3.2 Open

This function enables you to open a previously saved session file (in .csv format) from the software. The software accepts file saved with multiple sessions, and sessions can be stored from either the **Current** or **Recycle Bin** memory space.

Q GPScanID SOFTWARE VERSION V2.	1								-	٥	×
O Current O Recycle Bin		All	Session ID	Quantity	Session Name	Date	Progress	Status			
Open	•		0001	5		13-10-2020 12:15:46		Downloaded			
Save			0002	5		13-10-2020 14:00:07		Downloaded			
Create Creation			0003	6		13-10-2020 14:08:41		Downloaded			
Create Session			0004	2		13-10-2020 14:17:38		Downloaded			
Download Sessions	11_		0005	3	ABC	13-10-2020 14:29:41		Downloaded			
Clear			0006	2		13-10-2020 15:08:25		Downloaded			
Delete	Та	ag W	orkspace •								
Restore											
Upload to Reader											
Print											
Setup											
Help											
Exit											
Producer Transfer											
Third Party Transfer											
Tag Bucket											
Tag Replacement											

The software can only open csv file in the following format:

Session ID, Quanti	ity, Session Name, Session	Date, Source,	Count, RFID, GPS, Date, UF1, UF2, UF3, UF4
31, 4, , 05/12/2021	17:42:05, Current, 1, 951	000310561643	,-37.765662;144.947837,05/12/2021 17:46:18,,,,
31, 4, , 05/12/2021	17:42:05, Current, 2, 951	000310562029	,-37.765662;144.947837,05/12/2021 17:46:22,,,,
31, 4, , 05/12/2021	17:42:05, Current, 3, 951	000310562838	,Not Recorded,05/12/2021 17:46:30,,,,
31, 4, , 05/12/2021	17:42:05, Current, 4, 951	000310562860	,Not Recorded,05/12/2021 17:47:16,,,,

3.3 Save

This function enables the user to save session(s) from the software's memory space to the PC in .csv format. The file is saved to C:\\Program File (x86)\GPScanID_Software\Filing_Cabinet as the default location. You can specify other location by navigating in the **File Manager** window.

GPScanID SOFTWARE VERSION V2	.1							-	D	×
• Current O Recycle Bin	All	Session ID	Quantity	Session Name	Date	Progress	Status			
Open	•	0001	5		13-10-2020 12:15:46		Downloaded			
Save		0002	5		13-10-2020 14:00:07		Downloaded			
		0003	6		13-10-2020 14:08:41		Downloaded			
Create Session		0004	2		13-10-2020 14:17:38		Downloaded			
Download Sessions		0005	3	ABC	13-10-2020 14:29:41		Downloaded			
Clear		0006	2		13-10-2020 15:08:25		Downloaded			
Delete	Tag	Workspace	•							
Restore										
Upload to Reader										
Print										
Setup										
Help										
Exit										
Producer Transfer										
Third Party Transfer										
Tag Bucket										
Tag Replacement										

You can choose to save a single session, multiple or all sessions from the Session Workspace.

To save a single session, select its **Session ID** to select, then press **Save**.

To save multiple sessions, press and hold the Ctrl key to select the Session IDs, then press Save.

To save all sessions, press All next to Session ID header to select all sessions, then press Save.

3.4 Create Sessions

This function enables you create a session with up to 15-character long **Session Name** in the reader. Enter the name in **Session Name** field, press **Save to Reader** when finished. You can keep creating sessions using this function. Press **Exit** when finished.

* Please note comma ',' cannot be used in Session Names.

Create Session		×
Session Name:		
	Save to Reader	
		Exit

3.5 Download Sessions

This function establishes a connection between the reader and the software, then downloads all sessions from the reader to the software (Please refer to Section 1.4 for details in establishing connection with the reader).

OPScanID SOFTWARE VERSION	V2.1								-	٥	×
O Current O Recycle Bin	1	All	Session ID	Quantity	Session Name	Date	Progress	Status			
Open		Þ.	0001	5		13-10-2020 12:15:46		Downloaded			
Save			0002	5		13-10-2020 14:00:07		Downloaded			
Create Cassian			0003	6		13-10-2020 14:08:41		Downloaded			
Create Session			0004	2		13-10-2020 14:17:38		Downloaded			
Download Sessions			0005	3	ABC	13-10-2020 14:29:41		Downloaded			
Clear		_	0006	2		13-10-2020 15:08:25		Downloaded			
Delete		Tag	Workspace	•							
Restore											
Upload to Reader											
Print											
Setup											
Help											
Exit											
Producer Transfer											
Third Party Transfer											
Tag Bucket											
Tag Replacement											

3.6 Clear (Session)

This function pushes the selected session(s) from the **Current** memory space to the **Recycle Bin**. Cleared sessions are not deleted, they are simply moved to another memory location. They can be restored back to the **Current** memory space by using the **Restore** function.

To select multiple sessions, press and hold the **Ctrl** key to select the **Session ID**s.

To select all sessions, press **All** next to **Session ID** header.

Press **Clear** to clear the selected session(s).

If only 1 session is present, clearing the session will cause both the reader and software to automatically create a new session (with the new session number incremented by 1 from the last session number). This enables the reader to be able to read tags at any time.

OPScanID SOFTWARE VERSION V2.	1							-	ð	×
• Current O Recycle Bin	A	I Session ID	Quantity	Session Name	Date	Progress	Status			
Open	Þ	0001	5		13-10-2020 12:15:46		Downloaded			
Save		0002	5		13-10-2020 14:00:07		Downloaded			
Construction in the		0003	6		13-10-2020 14:08:41		Downloaded			
Create Session		0004	2		13-10-2020 14:17:38		Downloaded			
Download Sessions		0005	3	ABC	13-10-2020 14:29:41		Downloaded			
Clear		0006	2		13-10-2020 15:08:25		Downloaded			
Delete	Та	g Workspace 🔹								
Restore										
Upload to Reader										
Print										
Setup										
Help										
Exit										
Producer Transfer										
Third Party Transfer										
Tag Bucket										
Tag Replacement										

3.7 Delete (Session)

This function is only available in the **Recycle Bin** memory space. It **permanently deletes** the selected session(s) and this process **cannot be reversed**. Please pay extra attention when deleting sessions!

To select multiple sessions, press and hold the **Ctrl** key to select the **Session ID**s.

To select all sessions, press All next to Session ID header.

Press **Delete** to delete the selected session(s).

GPScanID SOFTWARE VERSION V2.1	1										-	ð	×
O Current O Recycle Bin	All	Session ID 🔺	Quantity	Session Name		Date	Prog	ress		Status			
Open		0001	5		13-1	0-2020 12:15:46				0%			1
Save		0002	5		13-1	0-2020 14:00:07				0%			
		0003	6		13-1	0-2020 14:08:41				0%			
Create Session		0004	2		13-1	0-2020 14:17:38				0%			
Download Sessions		0005	3	ABC	13-1	0-2020 14:29:41				0%			
Clear		0006	2		13-1	0-2020 15:08:25				0%			
Delete	Tag	Workspace •											
Restore		Count	RFID	GPS		Date	UF1	UF2	UF3	UF4			
Upload to Reader													
Print													
Setup													
Help													
Exit													
Producer Transfer													
Third Party Transfer													
Tag Bucket													
Tag Replacement													

3.8 Restore (Session)

This function is only available in the **Recycle Bin**. It moves the selected cleared session(s) from the **Recycle Bin** back to the **Current** memory space.

To select multiple sessions, press and hold the **Ctrl** key to select the **Session ID**s to be deleted.

To select all sessions, press All next to Session ID header.

Press **Restore** to restore the selected session(s).

GPScanID SOFTWARE VERSION V2.	1											-	D	×
O Current O Recycle Bin	All	Session ID 🔺	Quantity	Session Name	Date		Progr	ess		Stat	us			
Open		0001	5		13-10-2020 12:15:4	6				0	%			1
Save		0002	5		13-10-2020 14:00:0)7				0	%			
Crusta Cassian		0003	6		13-10-2020 14:08:4	1				0	%			
Create Session		0004	2		13-10-2020 14:17:3	8				0	%			
Download Sessions		0005	3	ABC	13-10-2020 14:29:4	1				0	%			
Clear	II	0006	2		13-10-2020 15:08:2	25				0	%			
Delete	Tag	Vorkspace •												
Restore		Count	RFID	GPS	Date		UF1	UF2	U	F3	UF4			
Upload to Reader														
Drint														
Plint	11													
Setup														
Help	11													
Exit														
Producer Transfer														
Third Party Transfer														
Tag Bucket														
Tag Replacement														

3.9 Upload to Reader

This function saves the user comments entered in the 4 user fields (UF1 to UF4) in **Tag Workspace** to the reader.

You can add comments[†] relevant to the **ID Number** in the cells under columns **UF1 to UF4**, then press **Upload to Reader** to save it in the reader.

⁺ You can enter a maximum of 16 characters in each user field. Please note comma ',' is a reserved character and cannot be saved in the user fields.

OPScanID SOFT	TWARE VERSION V2.1															-	٥	×
O Current	Recycle Bin	All	Session	ID	Quantity	Session Name		Date		Progr	ess		Sta	tus				
Op	ben	۱.	000	1	5		13-1	.0-2020 12:15:46					Dowr	nloaded				
Sa	ive		000	2	5		13-1	0-2020 14:00:07					Dowr	nloaded				
			000	3	6		13-1	0-2020 14:08:41					Dowr	nloaded				
Create	Session		000	4	2		13-1	0-2020 14:17:38					Dowr	nloaded				
Download	d Sessions		000	5	3	ABC	13-1	0-2020 14:29:41					Dowr	nloaded				
Cle	ear		000	6	2		13-1	0-2020 15:08:25					Dowr	nloaded				
Del	lete	Tag	Workspace	•														
Rest	tore		Count		RFID	GPS		Date	UF	F1	UF2	U	F3	UF4				
Lipload to	o Roador		1	999 (00000000358	-26.691973,152.4	509	13/10/2020 12:16:	10 Ang	jus	825kg	Vacci	ne-A	Feedlot5				
Opload to	o Reader		2	951 (013001089645	-26.691973,152.4	509	13/10/2020 12:16:1	13 Brah	man	769kg	Vacci	ne-B	FarmB12				
Pri	int		3	951 0	013001004942	-26.691973,152.4	509	13/10/2020 12:16:1	17 Gelb	vieh	922kg	Vacci	ne-C	John'sFarr	n			
Set	tup		4	951 (000502220320	-26.691973,152.4	509	09/03/2021 14:47:4	43						_			
He	elp		5	951 0	015000001431	-26.691973,152.4	509	09/03/2021 14:48:0	00									
Ð	xit																	
Status:Connected	СОМ5										Mainboard: 0	5100_R00	A08V06	, RF: M100_R	F_R00A03V0	6, Serial #	⊧: G1000G	0048

3.10 Print

This function prints the Tag Workspace of the highlighted session.

The **Print** function allows you to print one session at a time. To print multiple sessions, please print them one-by-one.

GPScanID SOFTWARE VERSION V2.	1														-	Ø	×
O Current O Recycle Bin	All	Session	ID	Quantity	Session Name	_	Date		Progr	ess		Sta	itus				
Open	•	000	1	5		13-1	0-2020 12:15:46					Dowr	nloaded				
Save		000	2	5		13-1	0-2020 14:00:07					Dowr	nloaded				
County Counting		000	3	6		13-1	0-2020 14:08:41					Dowr	nloaded				
Create Session		000	4	2		13-1	.0-2020 14:17:38					Dowr	nloaded				
Download Sessions	II	000	5	3	ABC	13-1	0-2020 14:29:41					Dowr	nloaded				
Clear		000	6	2		13-1	.0-2020 15:08:25					Dowr	nloaded				
Delete	Tag	Norkspace	•														
Restore		Count		RFID	GPS		Date		UF1	UF2	UF	F3	UF4				
Upload to Roader		1	999 (0000000358	-26.691973,152.4	509	13/10/2020 12:16:	10	Angus	825kg	Vacci	ne-A	Feedlot5				
opioad to Reader		2	951 (13001089645	-26.691973,152.4	509	13/10/2020 12:16:	13	Brahman	769kg	Vacci	ne-B	FarmB12				
Print		3	951 (013001004942	-26.691973,152.4	509	13/10/2020 12:16:	17	Gelbvieh	922kg	Vacci	ne-C	John'sFarm	1			
Setup		4	951 (000502220320	-26.691973,152.4	509	09/03/2021 14:47:4	43						_			
Help		5	951 (015000001431	-26.691973,152.4	509	09/03/2021 14:48:0	00									
Evit																	
C.R.																	
Status:Connected COM5										Mainboard: G	100_R00	A08V06	, RF: M100_R	F_R00A03V0	6, Serial #	t: G10000	G0048

To print the GPS locations of the session(s), select **Map Workspace** from the drop-down options, select which session(s) you want to show, then click the **Print Map** button.

GPScanID MAP

Page 1 of 1





3.11 Setup

The **Setup Menu** hosts a wide range of functions and configurations for both the GPScanID reader and Software.

GPScanID SC	OFTWARE VERSION V2.	.1													-)	;
 Current 	O Recycle Bin	All	Session	ID	Quantity	Session Name		Date	Prog	ress		Sta	atus				l
(Open	•	000	1	5		13-1	0-2020 12:15:46				Dow	nloaded				
	Save		000	2	5		13-1	0-2020 14:00:07				Dow	nloaded				
Carach	Consister .		000	3	6		13-1	0-2020 14:08:41				Dow	nloaded				
Creat	te Session		000	4	2		13-1	.0-2020 14:17:38				Dow	nloaded				
Downlo	ad Sessions		000	5	3	ABC	13-1	.0-2020 14:29:41				Dow	nloaded				
(Clear		000	6	2		13-1	0-2020 15:08:25				Dow	nloaded				
D	Delete	Tag	Workspace	•													
R	estore		Count		RFID	GPS		Date	UF1	UF2	U	F3	UF4				Ī
Unload	d to Roador		1	999 (00000000358	-26.691973,152.4	509	13/10/2020 12:16:10	0 Angus	825kg	Vacci	ne-A	Feedlot5				
opidad	d to Reader		2	951 (013001089645	-26.691973,152.4	509	13/10/2020 12:16:13	3 Brahman	769kg	Vacci	ne-B	FarmB12				
l l	Print		3	951 (013001004942	-26.691973,152.4	509	13/10/2020 12:16:17	7 Gelbvieh	922kg	Vacci	ne-C	John'sFarn	1			
9	Setup		4	951 (000502220320	-26.691973,152.4	509	09/03/2021 14:47:43	3								
	Help		5	951 (015000001431	-26.691973,152.4	509	09/03/2021 14:48:00	D								
	Evit																
	LAR																
atus:Connecte	ed COM5 🔵									Mainboard:	G100_R00	0A08V06	5, RF: M100_R	F_R00A03V06,	erial #: G1	1000G0	ļ

3.11.1 Reader Configuration

This section contains the default operating parameters of the Reader. After entering the appropriate parameters in the software, you can save the default reader settings (from the software) to the reader or the PC. You can also download the parameters from the reader to the software or open a previously saved configuration file and load it to the software.

GPScanID SOFTWARE VERSION V2.1		
O Current O Recycle Bin	🖻 Reader Configur	ration
Open	Reader Name	GPScanID
Save		
Create Session	Sound	On v
Download Sessions	Vibrate	On v
Clear	Auto Off After	10 V Minutes
Delete	Wake Backlight	On Keypre: 🗸
Restore	Dim Backlight After	30 Seconds
Upload to Reader	Battery Warning	6400 🗘 mV
Print		
Back to Workspace	Battery Shutdown	6000 → mV
Help	Menu Button	Active ~
Exit	Save to PC	Save to Reader
Producer Transfer	Load from PC	Load from Reader
Third Party Transfer	Advanced Config	guration
(i)	Res	set Reader
Tag Bucket	Restore	Factory Settings
Tag Replacement	Rest	tore Reader
<i⊳< th=""><td></td><td></td></i⊳<>		
Status:Connected COM5		

When modifying the **Reader Name**, please note it has a maximum length of 8 alphanumeric digits and only a...z, A...Z, or 0...9 is acceptable. Space or other special characters cannot be used.



The diagram below illustrates the 4 function buttons: **Save to PC**, **Save to Reader**, **Load from PC**, and **Load from Reader**.

If a new configuration is saved to the Reader, the following warning screen is also displayed on the Reader to notify the user.



3.11.2 Advanced Configuration

This section contains the functions regarding resetting and restoring the Reader.

- **Reset Reader**: Powers off the reader and restarts it. All contents and settings in the reader remain unchanged.
- **Restore Factory Setting**: Restores the reader to its original factory settings. All recorded Sessions and IDs remain unchanged in the reader and will not be deleted.
- Restore Reader:
 Restores the reader to its original factory settings. <u>All</u>

 recorded Sessions and IDs will be erased and cannot be retrieved.
 Session 1 is automatically created.



3.11.3 Upload Configuration

This section allows you to select the country where the reader will be used. You can enter user account details to connect with its government databases.

Reader Name Sound Vibrate	GPScanID On v		Option Country Austra	alia (NLIS)	
Auto Off After Wake Backlight Dim Backlight After Battery Warning Battery Shutdown Menu Button Save to PC Load from PC Advanced Config Res	10 On Keyprei 30 6400 6000 Active Save to F Load from Uration	Minutes Seconds mV mV Reader Reader	NLIS Account Type Pri User Name Password PIC Code Display Format Output Format Tag Type Animal Load from Reader	oducer v nfirm puration 16 Digits v Only v Save to Reader puration	
Restore F	actory Settings		Baud Rate 9600	~	
Resto	ore Reader		Bluetooth Off	Save to Reader	
	Wake Backlight Dim Backlight After Battery Warning Battery Shutdown Menu Button Save to PC Load from PC Advanced Config Rest Restore F Rest	Wake Backlight On Keyprer Dim Backlight After 30 Battery Warning 6400 Battery Shutdown 6000 Battery Shutdown 6000 Menu Button Active Save to PC Save to I Load from PC Load from Reset Reader Restore Factory Settings Restore Reader Restore Reader	Wake Backlight On Keyprer Dim Backlight After 30 Seconds Battery Warning 6400 Mr W Battery Shutdown 6000 Mr W Menu Button Active Save to PC Save to Reader Load from PC Load from Reader Advanced Configuration Reset Reader Restore Factory Settings Restore Reader Restore Reader	Wake Backlight On Keypre: Dim Backlight After 30 Battery Warning 6400 Battery Shutdown 6000 Menu Button Active Save to PC Save to Reader Load from PC Load from Reader Reset Reader Connection Config Restore Factory Settings Buletooth Off Load from Reader Load from Reader	Wake Backlight On Keyprer Dim Backlight After 30 Battery Warning 6400 Battery Shutdown 6000 Battery Shutdown 6000 Menu Button Active Save to PC Save to Reader Load from PC Load from Reader Reset Reader Save to Reader Restore Factory Settings Buletooth Buetooth Off Load from Reader Save to Reader Load from Reader Save to Reader



For Australia, the National Livestock Identification System (NLIS) requires the following input fields:

- Account Type: Select the account type. Only **Producer** and **Third-Party** account types are supported in this version.
- User Name: Username of the NLIS account.
- **Password:** Password of the NLIS account.
- **PIC Code:** Property Identification Code (PIC) where online operations are performed. You can also submit this information later when performing NLIS operations.
- **Confirm:** When all details have been entered, press **Confirm** to save.

3.11.4 ID and Tag Configuration

This section allows you to select the ID format to be displayed and output from the reader. You can also select the types of tags the reader can read.

urrent O Recycle Bill	Reader Configuration	Upload Configuration
Open Save Create Session townload Sessions Clear Delete Restore	Reader Name GPScanID Sound On Vibrate On Auto Off After 10 Wake Backlight On Keyprer Dim Backlight offer 30	Option Option Country Australia (NLIS) NLIS Account Type Producer User Name Password
Upload to Reader Print Back to Workspace Help	Battery Warning 6400 ÷ mV Battery Shutdown 6000 ÷ mV Menu Button Active ✓	PIC Code Confirm Display Format 16 Digits
Exit Producer Transfer	Save to PC Save to Reader Load from PC Load from Reader Advanced Configuration	Output Format 16 Digits Tag Type Animal Only Load from Reader Save to Reader
Tag Bucket	Reset Reader Restore Factory Settings Restore Reader	Connection Configuration Baud Rate 9600 Bluetooth Off Load from Reader Save to Reader

To set display format of the IDs, press the pull-down menu in **Display Format** to select any one of the following 4 formats:

Display Fo	rmat	15 Digits	Y
Output Fo	rmat	15 Digits 16 Digits	
Tag Type Anim		Hexadecimal	

1. 15 (Decimal) Digits:	For example, 951123456789000
2. 16 (Decimal) Digits:	For example, 951 123456789000
3. ISO:	For example, A000000951123456789000
4. Hexadecimal:	For example, 8000EDDCBE991A08

For the newly selected ID format to take place in both the Software and reader, press **Save to Reader** then **Back to Workspace** in the Software.

** Note: The NLIS functions only accepts ID(s) in 16-digit format. That is, a space after the third digit. Hence, all IDs, whether imported from PC or downloaded from the reader, must be saved and displayed as 16-digits.

Similarly, select the pull-down menu in **Output Format** and press **Save to Reader** to change the output format of the IDs transmitted out from the reader. This may be required to interface with some third-party herd management software.

To change the tag type readable by the reader, press the pull-down menu in **Tag Type** to select either **Animal Only** or **Animal and Industrial**, then press **Save to Reader**.

3.11.5 Connection Configuration

This section allows you to set the connection parameters such as the baud rate and/or enable/disable the Bluetooth function of the reader. Baud rate is the speed in which information is transferred in a communication channel between the reader and the connected device. The default factory baud rate is 9,600 bits per second.

Load from Reader: Downloads the baud rate and Bluetooth On / Off settings from the reader to the software.

Save to Reader: Uploads the baud rate and Bluetooth On / Off settings from the software to the reader.

rrent O Recycle Bin	Reader Configuration	Upload Configuration
Open Save	Reader Name GPScanID	Option
create Session	Sound On V	Country Australia (NLIS)
wnload Sessions	Vibrate On ~	NLIS
Clear	Auto Off After 10 Vinutes	User Name
Delete	Wake Backlight On Keypres ~	Password
load to Reader	Dim Backlight After 30 🗧 Seconds	PIC Code
Print	Battery Warning 6400 • mV	Confirm
ck to Workspace	Battery Shutdown 6000 🔹 mV	
Help	Menu Button Active ~	Display Format 16 Digits
Exit	Save to PC Save to Reader	Output Format 16 Digits ~
oducer Transfer	Load from PC Load from Reader	Tag Type Animal Only 🗸
Cib rd Party Transfer	Advanced Configuration	Load from Reader Save to Reader
≤i≥	Reset Reader	Connection Configuration
Tag Bucket	Restore Factory Settings	Baud Rate 9600 V
g Replacement	Restore Reader	Bluetooth Off ~
< i S		Load from Reader Save to Reader

If a new configuration (either the baud rate or Bluetooth On / Off) is saved to the Reader, the following warning screen will be displayed on the Reader.



3.11.6 Software/Firmware Updates

We will provide software fixes, features enhancements and introduce new features to the reader over time. The revised software is available via updates.



There are 3 main sections in this update section:

- i) Update Reader;
- ii) Update Driver; and
- iii) Update PC Tool

The following sections explain the detailed procedures to update each of them.

3.11.6.1 Update Reader

There are 3 different firmware in the reader, each responsible for managing different functions:

Mainboard:	Manages the reader functionalities.
RF:	Manages the Radio Frequency (RF) circuitry for reading tags.
Bluetooth:	Manages the Bluetooth module to communicate with external peripherals.

To automatically update any one or all of the reader firmware:

- **Step 1:** Power on the reader and connect with an internet-enabled PC via the serial cable. Please note firmware updates can only be completed using a serial port connection. Bluetooth connection cannot be used.
- **Step 2:** Launch the GPScanID software.
- **Step 3:** Press the **Setup** button.
- Step 4: Press Check Updates in the Update Reader section.

🗖 Update Reader	
Select File	
Update	
Check Updates	

Step 5: The software will check online updates for all 3 firmware.



Step 6a: If no update is available, the following window appears. Press **Exit** to exit this screen.



Step 6b: If update is available, the following window appears. You can select the firmware and decide what action(s) to take.

	marc update(s) a	e avaliable:
Mainboard:G100_R	00A09V01.enc	
RF:M100_RF_R00A	03V06.enc	

Press **Download Later** to exit this download screen and do not take any further actions.

Press Download Only to download the updates and install later.

Click **Download and Install** to download the updates and install automatically.

Step 7: If Download Only or Download and Install is selected, the following screen appears to prompt the user to identify the location where the new firmware will be stored. The default location is the folder where the GPScanID Software is installed. Press OK to confirm.

Select	older to s	ave	
	~	GPScanID SOFTWARE	,
		ErrLog	
		Filing_Cabinet	
		Temp_Report	l
	>	InstallShield Installation Informat	
	>	Intel	
	>	Internet Explorer	
	>	Lenovo	,
<		>	

Step 8: Once the location is confirmed, the software will start to download the selected firmware and install automatically. The progress bar in the **Update Reader** section shows the progress of the update.

		- 0 X
n	Upload Configuration	🖃 Update Reader
ScanID	Option	Mainboard Firmware
~	Country Australia (NLIS) ~	Select File C:\Users\r2427\Downloads\
∽ ∽ Minutes	NLIS Account Type Producer	Update Updating
Ke GPScanID Firmware Update	User Name	
O Updating Mainboard O Mainboard:G100_Rt RF:M100_RF_R00AC Stree S Download Later Later	Download Download and Install	단 Update Driver 관 Update PC Tool
tion	Load from Reader Save to Reader	
eader	Connection Configuration	
ory Settings	Baud Rate 9600 V	
Reader	Bluetooth Off Load from Reader Save to Reader	
	Mai	inboard: G100_R00A08V04, RF: M100_RF_R00A03V05, Serial #: G1000G0048

Step 9: The following window will appear when the update is completed. Press **OK** to exit.



To manually select a specific reader firmware update (whether it is Mainboard, RF or Bluetooth), follow Steps 1 to 3 above to connect the reader with the software, then proceed with the steps below.

Step 4:	Press Select File in the Update Reader section.	
---------	---	--

🗖 Update Reader	
Colort File	
Update	
Check Updates	

Step 5: Use the File manager window to locate the previously downloaded firmware. Press **Open** to confirm.

differie o filospara ant	Reader Configuration	🖃 Upload Configurat	
Open	R Open		>
Save			
Create Session	$S \leftarrow \to V \land I = K Firm I I I I I I I I$	Mainbo V C Search Ma	inboard P
ownload Sessions	Vi Organize 👻 New folder		≣ • 💷 🕜
Clear	At > Attachments Name	Status	Date modified
Delete	W Desktop	100A09V01.enc 📀	2022-07-20 3:09 4
Restore	Di Documentr G100_R	200A08V06.enc 0	2022-03-21 8:41 F
Upload to Reader	Bi Dicture G100_R	100A08V04.enc 0	2022-03-04 6:16 F
Print		00A02V01 B8.enc	2022-02-11 8:57 F
Back to Workspace	G100 R	100A08V02.enc	2021-12-31 7:13 F
Help	M ✓ 및 This PC	200A08V01.enc	2021-11-11 2:04 F
Exit	> Desktop	200A07V10.enc	2021-10-12 12:55
<ii></ii>	> Documents	200407V10 B1 enc	2021-08-17 7-02 6
Producer Transfer			
hird Party Transfer	File name: G100_R0	00A09V01.enc ~ ENC File	~
12		Oper	Cancel
Tag Bucket	Restore Factory Settings	Baud Rate 9600	~
Tag Replacement	Restore Reader	Bluetooth Off	~
12		Load from Reader	Save to Reader

Step 6: The software detects and displays the type of firmware to be updated. Press **Update** to start the update.

🖃 Update Reader	
Mainboard firmware	
Select File C:\Users\r2427\Downloads\	
Update	
Check Updates	

Step 7: The progress bar displays the status of the update and **Updating...** will display next to the **Update** button.

🖃 Update Rea	der
	Mainboard Firmware
Select File	C:\Program Files (x86)\GPSc
Update	Updating
Check Upd	ates

Step 8: If the update is successful, **Success** is displayed (in green) next to the **Update** button.

🖃 Update Reader		
	Mainboard Firmware	
Select File	C:\Program Files (x86)\GPSc	
Update	e Success	
Check Upo	lates	

If either the serial port fails or a power failure occurs during firmware update, and the Reader fails to turn on, the following warning window is displayed on the PC.



Follow the steps below to reinstall the firmware update.

With the reader still connected to the PC:

- **Step 1:** Close the software and relaunch it as **Offline**.
- Step 2: Press Setup to enter the Setup Menu.
- **Step 3:** Press **Update** in the **Update Reader** section. The following **COM** pull-down menu appears:

	-	×
Update Reader		
СОМ		

- **Step 4:** Choose the Serial Port used in the latest connection.
- **Step 5:** Press **Update**. The red LED in the reader will start flashing within 10 seconds. The progress bar indicates the update progress.
- **Step 6:** Wait till the update is completed.

The reader should now turn on. In the event of continued issues, please contact your distributor for technical assistance.

3.11.6.2 Update Driver

To re-install the driver for the GPScanID software, press **Re-install Driver** under the **Update Driver** section and refer to Section 1.4.2 for details.



3.11.6.3 Update GPScanID Software

To update the GPScanID Software, press **Check Updates** under **Update PC Tool**. If a new version of the software is available, it will prompt the user to download and update. Otherwise, it will display **No update available**. Press **Exit** to exit



Mainboard: G100_R00A09V01, RF: M100_RF_R00A03V06, Serial #: G1000G0048

** GPScanID Software V2.0 and above includes additional driver support for Windows[™] 11. This requires the software to be directly downloaded and installed from our website. The **Update PC Tool** function will not be able to update the software. Please check our website for further information.

3.12 Help

The **Help** section lists the **Function Buttons** and **Frequently Asked Questions (FAQ)** in a series of topics about operating the GPScanID software.

Function Buttons list the functionality of each button in the software.

FAQs provide a list of topics of frequently asked questions. You can navigate to each topic for assistance.



3.13 Exit

The **Exit** function prompts the user to exit the GPScanID software. Press **OK** to exit the software.

4. NLIS Function

The following section outlines the functions built into the GPScanID software for communicating with the Australia's National Livestock Identification System (NLIS) database.

Please note **ID**s must be in **15-digit** format to access these functions. IDs from **Tag Workspace** (whether downloaded from reader or imported Excel files) in different ID format cannot communicate with the NLIS database.

4.1 Producer Transfer

The **Producer Transfer** function allows you to transfer livestock from one location (or Property Identification Code (PIC)) to another.

Step 1: Select a session from the Session Workspace. It can be **Current**, **Recycle Bin** or **Open** from a previously saved file (The example below shows opening a saved file). Select all IDs or specific IDs to be transferred.

GPScanID SOFTWARE VERSION	I V2.1											-	0	_
O Current O Recycle Bin		All	Session I	D Quantity	Session Name	Date	Prog	ress	St	atus				
Open		•	0020	5		10/7/2020 11:48			Dov	vnloaded				
Save														
Create Session														
Download Sessions														
Clear														
Delete		Tag V	Norkspace	•							_			
Restore			Count	RFID	GPS	Date	UF1	UF2	UF3	UF4				
Upload to Reader			1	951 000002116621	-37.833797,144.9652	2								
Drint			2	951 000002118855	-37.833797,144.9652	2								
Print			3	951 000012712195	-37.833797,144.9652	2								
Setup			4	982 000036280431	-37.833797,144.9652	2								
Help			5	982 000066731939	-37.833797,144.9652	2								
Exit														
Producer Transfer														
Third Party Transfer														
Tag Bucket														
Tag Replacement														

Step 2: Press Producer Transfer. The following screen appears.

GPScanID SOFTWARE VERSION V2	.1					-	ð	×
O Current O Recycle Bin	-Back			Submit	Export			
Open	Producer Tra	nsfer Reference						
Save	UserName	2PRODHKA						
Create Session	Password	*******						
Download Sessions	Event Time	14/10/2020 10:28:58						
Clear	PIC From	NE200108	~					
Delete	PIC To	QBZZ2222	~					
Restore	5 RFIDs will be	submitted:						
Upload to Reader	951 000310563	8005						
Print	951 000310563	3255						
Setup	951 000310563	3405						
Help								
Exit								
Vib Producer Transfer								
Third Party Transfer								
Tag Bucket								
Tag Replacement								

Step 3: Enter and check all input fields and click **Submit.**

User Name:	Your NLIS user name.
Password:	The corresponding password.
Event Time:	Time in which the event takes place. (Optional. This field defaults to the system time).
PIC From:	The originating Property Identification Code.
PIC To:	The destination Property Identification Code.

When all details and IDs have been verified, press **Submit**. The status of the transfer is shown below:

GPScanID SOFTWARE VERSION V.	2.1							-	đ	×
• Current O Recycle Bin	- Back				Submit	i i i i i i i i i i i i i i i i i i i	Export			
Open	Producer Tra	nsfer Reference								
Save	UserName	2PRODHKA								
Create Session	Password	*******								
Download Sessions	Event Time	14/10/2020 10:28	:58 🔍 🗸							
Clear	PIC From	NE200108	~							
Delete	PIC To	QBZZ2222	~							
Restore	Time: 14/10/202	20 10:29:30	Tir	nestamp	Message					
Upload to Reader	Producer Transf	er:	20	2010141029	30 Producer Transfer:	5-successful 0-failed				
Print	0-failed									
Setup										
Help										
Exit										
Producer Transfer										
Third Party Transfer										
Tag Bucket										
Tag Replacement										

If the **Transfer** operation fails, an error message will be displayed in the description part of the screen outlining the reason for failure. The operation can fail either partially or in full. The main reasons for failure are:

- The tags are not registered on the PIC being transferred from; or
- The tags are not registered on the Database.

When performing a **Transfer** by opening a previously saved .csv file, please ensure the file is saved in the correct format as shown in the example below:

t,RFID,GPS,Date,UF1,UF2,UF3,UF4
,-37.833797;144.96522,03/04/2021 14:28:39,Angus,825kg,Vaccine-A,Feedlot 5
,-37.833797;144.96522,15/04/2021 14:28:54,Brahman,769kg,Vaccine-B,Farm B12
,-37.833797;144.96522,15/04/2021 14:29:00,Gelbvieh,922kg,Vaccine-C,John's Farm
Not Recorded,15/04/2021 14:29:05,1,2,3,4
Not Recorded,15/04/2021 14:29:30,,,,

Note: Date should be saved in **DD/MM/YYYY HH:MM:SS** format to be displayed properly in the software. Please use a text editor, such as WordPad instead of Microsoft Excel[™] to open and edit the file to prevent potential formatting issues.

4.2 Third Party Transfer

The Third-Party Transfer function is operated by third party account holder which is an intermediary in livestock transaction (buyer, seller etc). If you are asked to record a livestock movement for someone else's property but their PIC is not linked to your third-party account, submit this transaction to record the movement on the database.

You must log in with a Third-Party Account to use this function.

Step 1: Select a session from the **Session Workspace**. It can be **Current**, **Recycle Bin** or **Open** from a previously saved file in the PC.

Step 2: Press Third Party Transfer.

Step 3: Enter the following input fields and press **Submit.**

User Name:	User Name for the NLIS Third Party Account.
Password:	The corresponding password.
Event Time:	Time in which the event takes place (Optional. Default to system time).
PIC From:	The originating Property Identification Code.
PIC To:	The destination Property Identification Code.
Authorisation-Level:	Specifies the level of authorization given by a third party to perform a Producer Transfer transaction:
	0: Not authorized.
	1: Source PIC or vendor.
	2: Destination PIC or buyer.
	3: Other or both source PIC and destination PIC.
Authoriser-First Name:	Vendor First Name.

Authoriser-Last name: Vendor Last Name.

OPScanID SOFTWARE VERSION V2	.1						-	ð	×
O Current O Recycle Bin	-Back			Submit		Export			
Open	Third Party Tra	ansfer Reference							
Save	UserName	2TPTYSZH		Authorisation-Level	0: Not authorised	~			
Create Session	Password	******		Authoriser-Firstname	John				
Download Sessions	Event Time	10/07/2020 13:35:41		Authoriser-Lastname	Doe				
Clear	PIC From	3SGNE285	~						
Delete	PIC To	QHBN0554	~						
Restore	8 RFIDs will be s	ubmitted:							
Upload to Reader	951 000310573	078 084							
Print	951 000310573 951 000310573	111 116							
Setup	951 000310573 951 000310573	158 169							
Help	951 000310573 951 000310573	245 252							
Exit									
Við Producer Transfer									
Third Party Transfer									
Tag Bucket									

GPScanID SOFTWARE VERSION V	2.1						-	ð	×
O Current O Recycle Bin	-Back			Submit		Export			
Open	Third Party Tr	ansfer Reference		_					
Save	UserName	2TPTYSZH		Authorisation-Level	3: Other or both source PIC and de	estination PI 🗸			
Create Session	Password	******		Authoriser-Firstname	John				
Download Sessions	Event Time	14/10/2020 11:31:18		Authoriser-Lastname	Doe				
Clear	PIC From	QHBN0554	~						
Delete	PIC To	3SGNE285	~						
Restore	Time: 14/10/202	20 11:33:50							
Upload to Reader	ThirdParty Trans	sfer:							
Print	0-failed								
Setup									
Help									
Exit									
Producer Transfer									
Third Party Transfer									
Tag Bucket									

The status of the transfer is shown below:

If the **Transfer** operation fails, an error message will be displayed in the description part of the screen outlining the reason for failure. The operation can fail either partially or in full. The main reasons for failure are:

- The tags are not registered on the PIC being transferred from; or
- The tags are not registered on the Database.

When performing a **Transfer** by opening a previously saved .csv file, please ensure the file is saved in the correct format as shown in the example below:

Session ID,Quantity,Session Name,Session Date,Source,Count,RFID,GPS,Date,UF1,UF2,UF3,UF4	
0020,5,ALL,31/03/2021 14:28:29,Current,1,951 00000000358 ,-37.833797;144.96522,03/04/2021 14:28:39,Angus,825kg,Vaccine-A,Feed	lot 5
0020,5,ALL,31/03/2021 14:28:29,Current,2,951 013001089645 ,-37.833797;144.96522,15/04/2021 14:28:54,Brahman,769kg,Vaccine-B,Fa	rm B12
0020,5,ALL,31/03/2021 14:28:29,Current,3,951 013001004942 ,-37.833797;144.96522,15/04/2021 14:29:00,Gelbvieh,922kg,Vaccine-C,Jd	ohn's Farm
0020,5,ALL,31/03/2021 14:28:29,Current,4,951 000502220320 ,Not Recorded,15/04/2021 14:29:05,1,2,3,4	
0020,5,ALL,31/03/2021 14:28:29,Current,5,951 015000001431 ,Not Recorded,15/04/2021 14:29:30,,,,	

Note: Date should be saved in **DD/MM/YYYY HH:MM:SS** format to be displayed properly in the software. Please use a text editor, such as WordPad instead of Microsoft Excel[™] to open and edit the file to prevent potential formatting issues.

4.3 Tag Bucket

The Tag bucket function searches all IDs registered under the user specified PIC.

Step 1: Press Tag Bucket.

Step 2: Enter User Name, Password and PIC to be inquired then press **Submit**.



All IDs registered under the PIC will be displayed.

GPScanID SOFTWARE VERSION V2	.1									- 0	×
Current O Recycle Bin	-Back				Submit			Export			
Open	Tag Bucket R	eference							in a		
Save	UserName	2PRODHKA									
Create Session	Password	*******		_							
Download Sessions	PIC	QBZZ2222									
Clear									_		
Delete											
Restore	Time: 10/07/202	20 13:41:46		rfid	nlisid	PIC	transferDate	issueDate	lt	ReasonTypeID	Ti ^
Lipland to Rander	Tag Bucket:			982 000242213786	NI051111XBF00006	QBZZ2222	2010-11-01	2010-01-01	Y		N
opioad to Reader	19-successful			982 000258414224	NI051111XBF00007	QBZZ2222	2010-11-01	2010-01-01	Y	-	N
Print				951 000002064941	QJZZ6666LEA00009	QBZZ2222	2007-07-23	2005-03-10	N	1	N
Setup				951 000002116049	QHZZ5555LBA00011	QBZZ2222	2011-09-21	2005-03-10	Y	-	N
Help				982 000068191863	QJZZ66665XBE00003	QBZZ2222	2009-09-08	2009-01-01	Y	-	N
Thep				982 000017306330	3SGBE134XBY02310	QBZZ2222	2019-05-30	2003-08-22	Y	-	N
Exit				951 000310561643	NE200108LBP03166	QBZZ2222	2020-07-09	2018-07-02	Y	-	N
< ib				951 000310562029	NE200108LBP03197	QBZZ2222	2020-07-09	2018-07-02	Y		N
Producer Transfer				951 000310562838	NE200108LBP02930	QBZZ2222	2020-07-09	2018-07-02	Y	-	N
15				951 000310562860	NE200108LBP02999	QBZZ2222	2020-07-09	2018-07-02	Y	-	N
Third Party Transfer				982 000013293201	3TWDM017XBX00840	QBZZ2222	2018-11-21	2002-06-25	Y	-	N
/15				982 000017017944	3CPDG060XEY00008	QBZZ2222	2019-06-12	2003-06-20	N	1	N
Tag Bucket				982 000017036991	3CPDG060XEY00003	QBZZ2222	2019-06-12	2003-06-20	N	1	N
/-6				982 000020234020	3CPPW054XBY03510	QBZZ2222	2019-06-13	2003-12-11	N	2	N
< ID				982 000020532914	3CPPW054XBY03524	QBZZ2222	2019-06-13	2003-12-11	N	2	N
rag Replacement				982 000020533273	3CPPW054XBY03509	QBZZ2222	2019-06-13	2003-12-11	N	2	N
< ii>			<								>
Status:Connected COM8							Mainboard: G100 R0	0A09V01, RF: M100	RF RC	0A03V06, Serial #: G10(00G0048

You can press Export to save the records as an excel file in the PC.

4.4 Tag Replacement

The Tag Replacement function is used to replace lost/broken tags with new ones.

Step 1: Select a session from the Session Workspace. It can be **Current**, **Recycle Bin** or **Open** from a previously saved .csv file in the PC.

Step 2: Press Tag Replacement.

Step 3: Select the IDs to be replaced and enter the corresponding new IDs under the **New RFID** column (all IDs are being replaced in the following example).

Current O Recycle Bin	I All	Session I	D Quantity	Session Name	Date	Progress	Status		
Open	Þ	0022	5	14/1	0/2020 16:30:31		Downloaded		
Save									
Create Session									
Download Sessions									
Clear									
Doloto									_
Delete	Tag	Count	•	CDC	Data	New PETD		Proceed	
Restore		Count	RFID	GP5	Date	New KFID			
Upload to Reader		2	951 000310564028	-37,833797,144,90522	14/10/2020 16:31:02	951 000310564169			
Print		3	951 000310564047	-37,833797,144,96522	14/10/2020 16:31:39	951 000310564182			
Setun		4	951 000310564069	-37.833797.144.96522	14/10/2020 16:36:18	951 000310564186			
		5	951 000310564106	-37.833797.144.96522	14/10/2020 16:37:13	951 000310564208			
нер									
Exit									
Producer Transfer									
Third Party Transfer									
Tag Bucket									
Tag Replacement									
	111								

Step 4: Press Proceed when all new RFID entries are completed.

Please ensure to enter a space after the 3rd digit. The new IDs should be in the format XXX XXXXXXXXXXX.

Step 5: Modify the Event Time if required, then press Submit.

GPScanID SOFTWARE VERSION V2	.1							-	D	\times
• Current O Recycle Bin	-Back		Submit			Export				
Open	Tag Replacem	ent Reference	_							
Save	UserName	2PRODHKA								
Create Session	Password	******								
Download Sessions	Event Time	14/10/2020 17:18:00								
Clear		14/10/2020 17:10:00								
Delete										
Restore	5 RFIDs will be s	ubmitted:								
Upload to Reader	951 0003105640	028								
Print	951 0003105640 951 0003105640	067 069								
Setup	951 0003105641	106								
Help										
Exit										
Viv Producer Transfer										
Third Party Transfer										
Tag Bucket										
Tag Replacement										
<iè></iè>										
Status:Connected COM8				Mai	inboard: G100_R004	409V01, RF: M100_R	F_R00A03V06	5, Serial #:	G1000G	0048

Q GPScanID SOFTWARE VERSION V	2.1									-	٥	×
• Current O Recycle Bin	Here Back				Submit			Export				
Open	Tag Replacem	ent Reference										
Save	UserName	2PRODHKA										
Create Session	Password	******		-								
Download Sessions	Event Time	14/10/2020 17:18:0	0 🔲	-								
Clear												
Delete												
Restore	Time: 14/10/202	0 17:18:12	Т	imestamp	Message							
Upload to Reader	Tag Replacement	:	▶ 2	020101417181	2 Tag Replacement: 5	5-successful 0-failed						
Print	0-failed											
Setup												
Help												
Exit												
Producer Transfer												
Third Party Transfer												
Tag Bucket												
Tag Replacement												
<ii></ii>	·											
tatus:Connected COM8						Main	board: G100 R00	0409V01 RE: M100 R	E R00403V0	6 Serial (#: G1000	G0048

The status of the Tag Replacement is updated below:

If the **Tag Replacement** operation fails, an error message will be displayed in the description part of the screen outlining the reason for failure. The operation can fail either partially or in full. The main reasons for failure are:

- The tags are not registered on the PIC being transferred from; or
- The tags are not registered on the Database.

When performing **Tag Replacement** by opening a previously saved .csv file, please ensure the file is saved in the correct format as shown in the example below:

Session ID,Quantity,Session Name,Session Date,Source,Count,	,RFID,GPS,Date,UF1,UF2,UF3,UF4
0020,5,ALL,31/03/2021 14:28:29,Current,1,951 00000000358	,-37.833797;144.96522,03/04/2021 14:28:39,Angus,825kg,Vaccine-A,Feedlot 5
0020,5,ALL,31/03/2021 14:28:29,Current,2,951 013001089645	,-37.833797;144.96522,15/04/2021 14:28:54,Brahman,769kg,Vaccine-B,Farm B12
0020,5,ALL,31/03/2021 14:28:29,Current,3,951 013001004942	,-37.833797;144.96522,15/04/2021 14:29:00,Gelbvieh,922kg,Vaccine-C,John's Farm
0020,5,ALL,31/03/2021 14:28:29,Current,4,951 000502220320	Not Recorded,15/04/2021 14:29:05,1,2,3,4
0020,5,ALL,31/03/2021 14:28:29,Current,5,951 015000001431	Not Recorded, 15/04/2021 14:29:30, , , ,

Note: Date should be saved in **DD/MM/YYYY HH:MM:SS** format to be displayed properly in the software. Please use a text editor, such as WordPad instead of Microsoft Excel[™] to open and edit the file to prevent potential formatting issues.

4.5 Beast Report

The **Beast Report** function enables queries to be made about the selected IDs from the NLIS database.

- **Step 1:** Select a session from the Session Workspace. It can be **Current**, **Recycle Bin** or **Open** from a previously saved file in the PC.
- **Step 2:** Select all tags in the session or the tags to be inquired from the session.

Step 3: Press Beast Report.

OPScanID SOFTWARE VERSION V.	2.1			- 0 X
• Current O Recycle Bin	-Back	Submit	Export	
Open	Beast Report Reference			
Save	UserName 2PRODHKA			
Create Session	Password ******			
Download Sessions				
Clear				
Delete				
Restore	12 RFIDs will be submitted:			
Upload to Reader	951 000310563693 951 000310563760			
Print	951 000310563801 951 000310563874			
Setup	951 000310563899 951 000310563915			
Help	951 000310563918 951 000310563925			
Exit	951 000310563936 951 000310563946 951 000310563948			
Vib Producer Transfer	951 000310563978			
Third Party Transfer				
Tag Bucket				
Tag Replacement				
<i>i></i>				
Status:Connected COM8			Mainboard: G100_R00A09V01, RF: M100_R	F_R00A03V06, Serial #: G1000G0048

Step 4: Enter **User Name** and **Password**, if blank.

Step 5: Press Submit.

Step 6: Information about the IDs are displayed as follows:

urrent O Recycle Bin	Back			Submit			Export		
Open	Beast Report Reference								
Save									
Create Session									
ownload Sessions	Password								
Clear									
Clear									
Delete									
Restore	Time: 14/10/2020 17:34:26		PIC	RFID	NLISID	EU_Status			
inload to Reader	Beast Report:	•	NE200108	951 000310563693	NE200108LBP03035	N			
pioda conceder	12-successful 0-failed		NE200108	951 000310563760	NE200108LBP02877	N			
Print			NE200108	951 000310563801	NE200108LBP02892	N			
Setup			NE200108	951 000310563874	NE200108LBP02993	N			
Help			NE200108	951 000310563899	NE200108LBP02815	N			
			NE200108	951 000310563915	NE200108LBP02831	N			
Exit			NE200108	951 000310563918	NE200108LBP02847	N			
<ii></ii>			NE200108	951 000310563925	NE200108LBP03099	N			• 0
roducer Transfer			NE200108	951 000310563936	NE200108LBP02964	N			
<ib< td=""><td></td><td></td><td>NE200108</td><td>951 000310563946</td><td>NE200108LBP03079</td><td>N</td><td></td><td></td></ib<>			NE200108	951 000310563946	NE200108LBP03079	N			
ird Party Transfer			NE200108	951 000310563948	NE200108LBP02838	N			
/12			NE200108	951 000310563978	NE200108LBP03061	N			
Tag Bucket									
Tag Replacement									

You can press **Export** to save the records as an excel file in the PC.

If the **Beast Report** query fails, an error message will be displayed in the description part of the screen outlining the reason for failure. The query can fail either partially or in full. The main reasons for failure are:

- The tags are not registered on the PIC being queried; or
- The tags are not registered on the Database.