

# GS1 Verify

## User Guide

GS1 Verify – Powered by TracerPlus  
Version 2.1  
Portable Technology Solutions, LLC

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# GS1 Verify

For Android

## User Guide

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# Chapter 1: Application Overview

## What is GS1 Verify

GS1 Verify is a user-friendly application designed to help you manage and validate your RFID (Radio Frequency Identification) tags effectively. Powered by TracerPlus, GS1 Verify ensures that your RFID tags meet the standards required by major retailers, such as Walmart. Whether new to RFID technology or looking to streamline your tagging process, GS1 Verify provides the tools to achieve compliance and maintain smooth operations.

## Who Does GS1 Verify Help

GS1 Verify is designed to assist businesses of all sizes, whether you operate from a single location or manage multiple sites. This application is ideal for anyone looking to eliminate costly errors caused by non-compliant RFID tags, saving time and resources.

## How GS1 Verify Supports Your Business:

- **Validate EPC and UPC Values:** Ensure your RFID tags are accurate and conform to the required GS1 encoding. Quickly locate incorrectly encoded RFID tags.
- **Avoid Chargebacks:** Seamlessly complying with major retailers' RFID requirements, such as those set by Walmart.
- **Quick Data Collection and Automation:** Speed up data gathering and automate routine tasks for better productivity.
- **Tag Delivery Management:** PTS can assist with managing the monthly delivery of tags compliant with Walmart's specifications.

## System Requirements

To use the GS1 Verify application, you'll need the following:

- **Device:** A handheld device, tablet, or smartphone running Android Version 8.0 or higher.
- **Software Subscription:** A trial subscription to the GS1 Verify software.
- **RFID Scanner:** A compatible RFID scanning device to read and validate tags.

If you're unsure whether your device is compatible, contact PTS for assistance.

## GS1 Verify Cloud Requirements

To use GS1 Verify Cloud, ensure you have the following:

- **Device and Browser:** A personal computer or tablet with an internet browser. Google Chrome is recommended for the best experience, but other browsers are also supported.
- **Account Access:** An active subscription or trial account for GS1 Verify.

If you need help setting up your account or have questions about browser compatibility, contact PTS.

### More Information

To learn more about the GS1 Verify application, visit our website at

<https://www.tracerplus.com/software/gs1-rfid> or contact one of our account representatives by calling **1-877-640-4152** or emailing us at **sales@ptshome.com**.

## Chapter 2: Trial & Purchase

### **Requesting Trial Access**

To request a free trial of GS1 Verify, please get in touch with us at [sales@ptshome.com](mailto:sales@ptshome.com)

### **Purchase GS1 Verify**

To purchase a GS1 Verify subscription, please get in touch with us at [sales@ptshome.com](mailto:sales@ptshome.com)

## Chapter 3: Installation

### Mobile App

- 1). On the homepage of your device tap on the Google Play Store.
- 2). Login or create an account **if needed** on the Google Play Store.
- 3). Once the Google Play Store has launched and you have successfully logged in follow these steps:



- A). Search for **GS1 Verify**.
  - B). Search the results for the application.
    - I). Make sure the developer of the app is Portable Technology Solutions.
  - C). Click on the application to access the GS1 Verify Google Play Store page.
  - D). Click the **“Install”** button.
  - E). If the GS1 Verify application has been installed successfully you should see the option to open it.
  - F). Click **“Open”** or return to the device's home page.
- 4). The GS1 Verify application should now appear in the list of applications on the device.
  - 5). Tap the GS1 Verify icon to open the application if you do not choose to open it after installation in step 3F above.
  - 6). Use your credentials as **Username and Password** to log in.
    - A). If you do not have credentials and/or you have not purchased a subscription to the GS1 Verify application, please get in touch with an account rep at 1-877-640-4152 or sales@ptshome.com.
  - 7). The installation process is now complete. Please follow the steps below to log in to the GS1 Verify Cloud Portal.

### GS1 Cloud Access

- 1). Open a web-enabled internet browser like **Google, Safari, Firefox, etc.**
- 2). Go to <https://gs1.cloud.ptshome.com>
- 3). Enter your credentials and click **“Log In”**.



[Forgot Your Password?](#)

A). If you do not have credentials and/or have not purchased a subscription to the GS1 Verify application, please contact an account rep at 1-877-640-4152 or visit <https://www.ptsmobile.com>

4). Upon successful login you will be welcomed by the dashboard and a selectable menu on the left-hand side.



A). **Dashboard-** Account metrics, login history, license count, and useful links.

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- B). **User**- Interface to update the current user's information and reset passwords.
  - C). **Organization**- Account information in a “**View Only**” format.
  - D). **View Users**- View all users associated with the logged-in GS1 Verify account.
  - E). **View Data – All** – Access data from all scan types.
  - F). **View Data – By Scans** – Groups data by each scan done with a second grid to view tags scanned for a specific scan type.
- 5). Please proceed to “[Chapter 4: Using GS1 Verify](#)” to get started.

## Chapter 4: Using GS1 Verify

### How to Use GS1 Verify

GS1 Verify is designed to make barcode scanning and RFID tag validation simple and efficient. Below are some features and capabilities of the application to help you get started.

The first time using any one of the sessions described below, you will be prompted to select the type of RFID scanning device that GS1 Verify is running on. Simply select the type from the drop-down and click **SET DEVICE**.

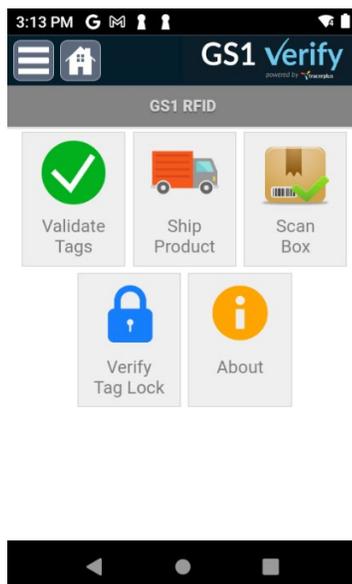
### Session 1: Validate Tags

The GS1 Verify RFID Tag Validation feature offers a powerful, easy-to-use solution for verifying GS1-encoded RFID tags. With this tool, you can ensure your tags meet the requirements of major retailers in just minutes, and quickly locate incorrectly encoded tags.

#### Features of Tag Validation:

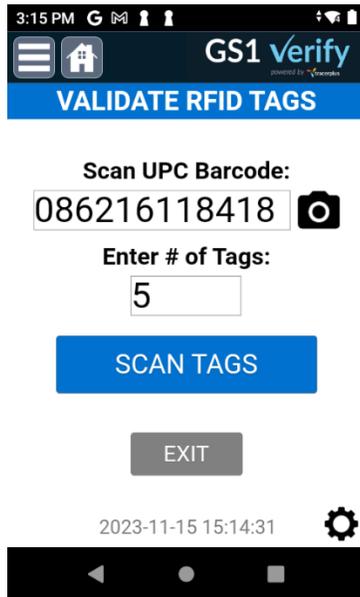
- **Compliance Check:** Quickly validate that your RFID tags are correctly encoded in the GS1 format.
- **Data Verification:** Verify UPC and EPC values match to confirm accuracy.
- **Error Detection:** Identify which tags are valid or invalid, allowing you to address issues like printing or scanning errors.

**STEP 1-** Select **Validate Tags** from the main menu:

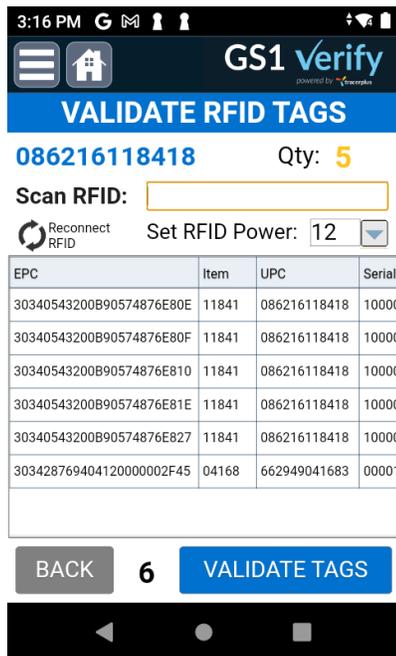


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**STEP 2-** Scan the UPC barcode that you want to validate, enter the total number of tags you are looking to scan for, and then click the **SCAN TAGS** button.

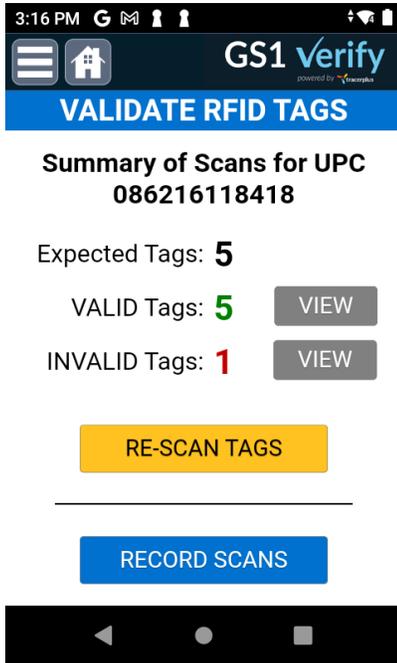


**STEP 3-** Scan all of the RFID tags you are looking to validate by pressing and holding the trigger of your RFID reader. As unique tags are scanned they will emit a beep and be displayed in a grid. Note that you can change the RFID Power at any point by choosing it from the drop-down. This is useful if you are picking up tags too far away. The power set here will be retained until changed again.

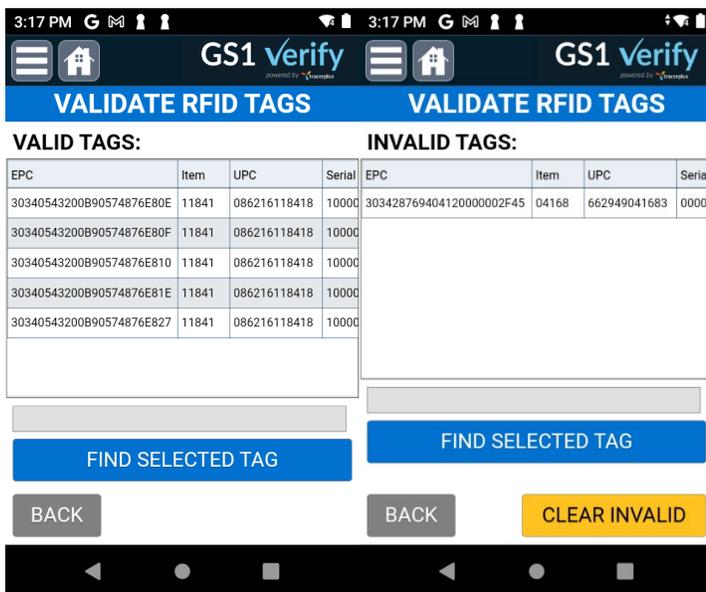


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**STEP 4-** When scanning is complete, click the **VALIDATE TAGS** button. You will be presented with the validation results, as seen in the screenshot below. Valid tags will be listed in green, and any invalid tags in red.

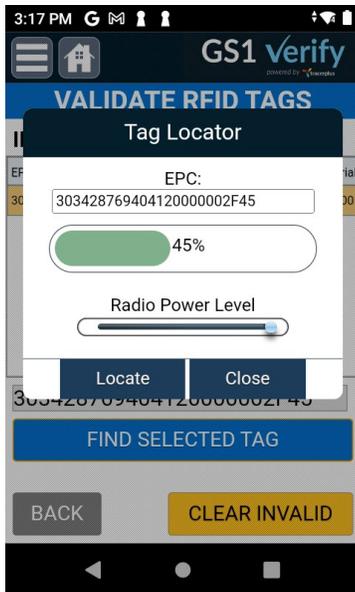


**STEP 5 (optional)-** To view Valid / Invalid tags that were scanned, click the **VIEW** button next to the count you wish to see.

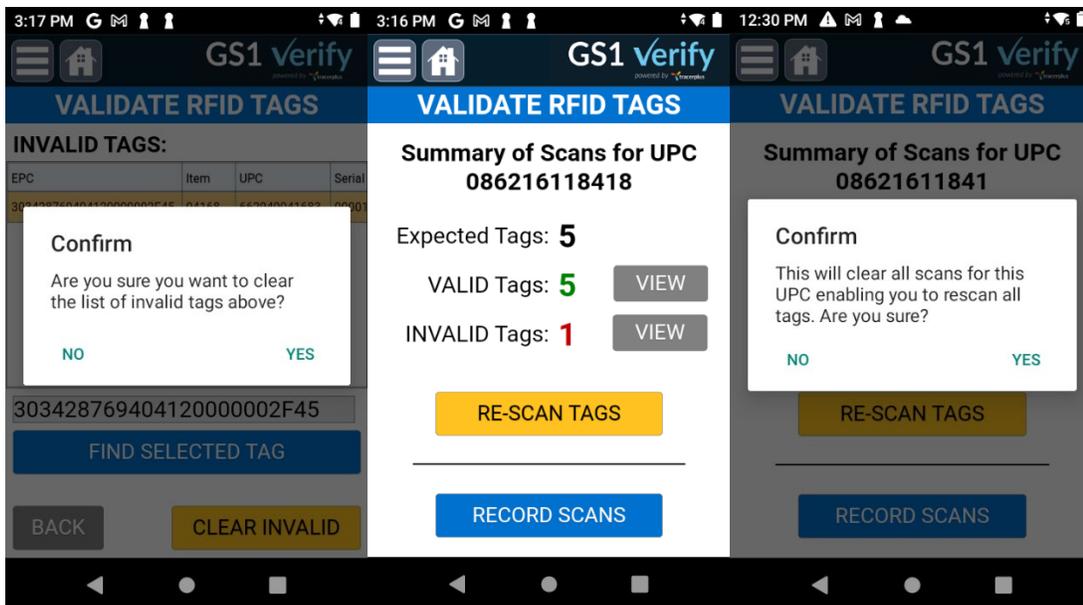


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**STEP 6 (optional)**- To find a tag on this list, select it and click **FIND SELECTED TAG**. This will open the Tag Locator tool to locate the invalid tag. Use the RFID scanner to find the tag. The progress bar will increase as you are closer to the tag, and the beeping will get louder.

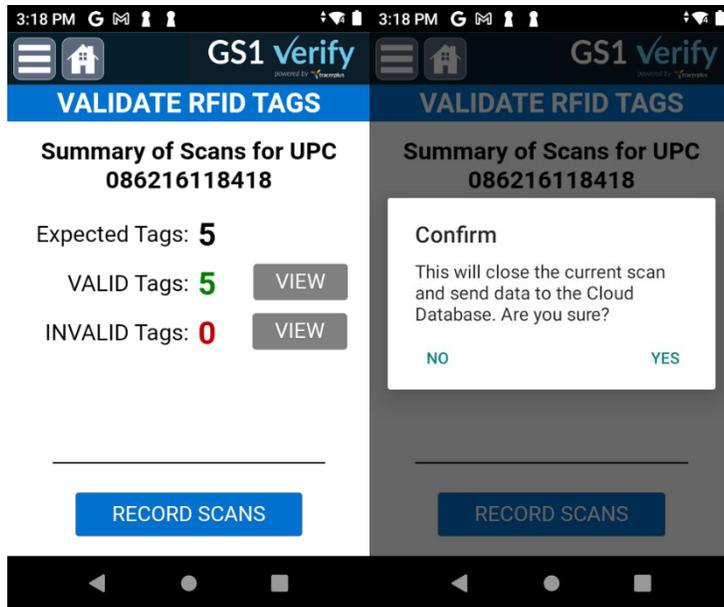


**STEP 7 (optional)**- From the Invalid Tags page, you have the option to clear any bad tags by clicking the **CLEAR INVALID** button. This will remove all invalid tags from the scan. Alternatively, you can click the **RESCAN TAGS** button from the summary page below to clear the current list of valid/invalid scans and repeat **STEP 3** above.

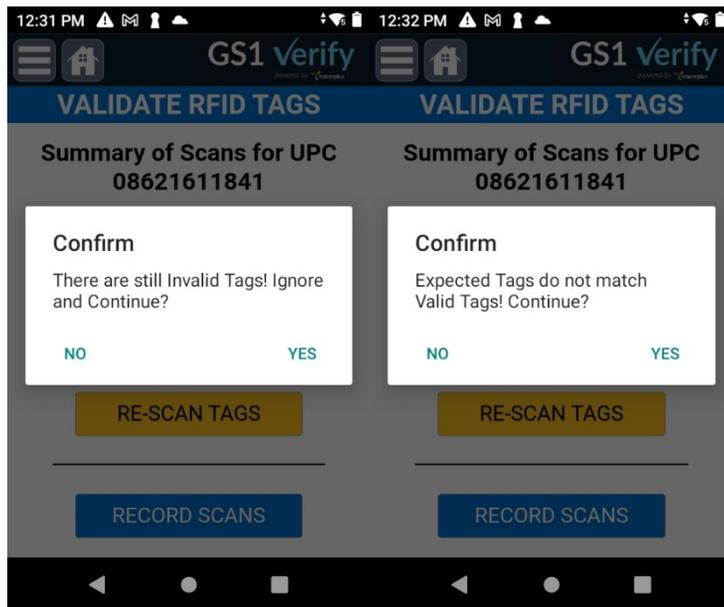


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**STEP 8-** If you choose to clear all invalid tags you will be presented with the below when returning to the Summary screen. Click the **RECORD SCANS** button to send the scanned data to the GS1 Cloud. Click **YES** on the prompt to proceed with the sync.



**STEP 9-** In the event you still have invalid tags OR the qty scanned does not match the qty expected, you will see the errors below. Clicking **YES** on these will proceed with the sync.



**STEP 10-** Synced data can be viewed in the GS1 Cloud outlined in [Chapter 5](#).

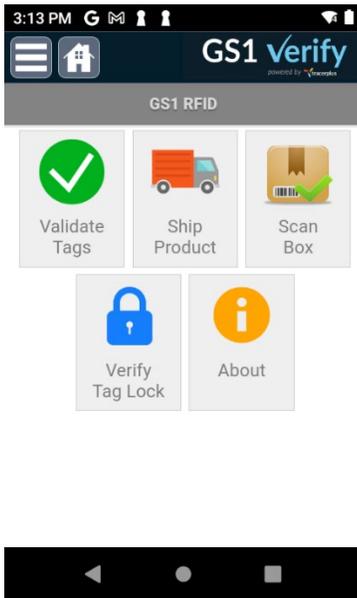
## Session 2: Shipping Products

Once your tags are validated using GS1 Verify, your products are ready for shipping. This step ensures that all necessary information is accurate and compliant with standards. Use the Ship Product form from the main menu to perform the Ship Product action. Note this performs the same functionality as the Validate Tags feature with the addition of associating an Order # to the scans. There is no need to use Validate Tags before shipping if you want to record this in a single step.

### Features of Verifying Products for Shipping:

- **Compliance Check:** Quickly validate that your RFID tags are correctly encoded in the GS1 format.
- **Data Verification:** Verify UPC and EPC values match to confirm accuracy.
- **Error Detection:** Identify which tags are valid or invalid, allowing you to address issues like printing or scanning errors.

**STEP 1-** Select **Ship Product** from the main menu:



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**STEP 2-** Scan or Key in the Order # being associated with the shipment, then scan the UPC barcode that you want to validate, enter the total number of tags you are looking to ship, and then click the **SCAN TAGS** button.

3:20 PM

GS1 *Verify*  
powered by *Veracode*

**SHIP PRODUCT**

Enter Order #: 9900245

Scan UPC Barcode: 086216118418

Enter # of Tags: 5

**SCAN TAGS**

EXIT

11/15/2023 3:20:14

**STEP 3-** Scan all of the RFID tags you are looking to ship by pressing and holding the trigger of your RFID reader. As unique tags are scanned they will emit a beep and be displayed in a grid. Note that you can change the RFID Power at any point by choosing it from the drop-down. This is useful if you are picking up tags too far away. The power set here will be retained until changed again.

3:21 PM

GS1 *Verify*  
powered by *Veracode*

**SHIP PRODUCT**

086216118418 Qty: 5

Scan RFID:

Reconnect RFID Set RFID Power: 15

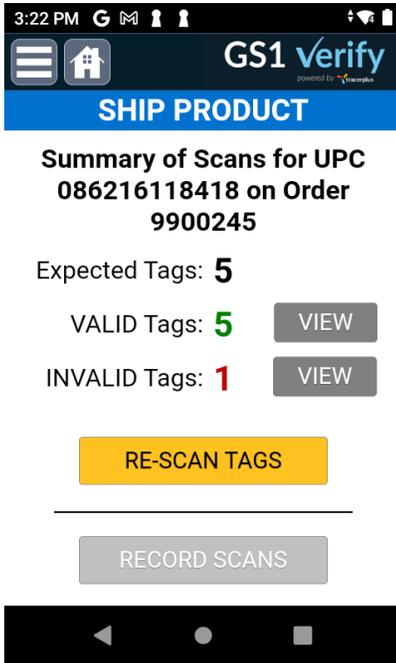
EPC	Item	UPC	Serial
30340543200B90574876E80E	11841	086216118418	10000
30340543200B90574876E80F	11841	086216118418	10000
30340543200B90574876E810	11841	086216118418	10000
30340543200B90574876E81E	11841	086216118418	10000
30340543200B90574876E827	11841	086216118418	10000
303428769404120000002F45	04168	662949041683	0000T

BACK 6 VALIDATE TAGS

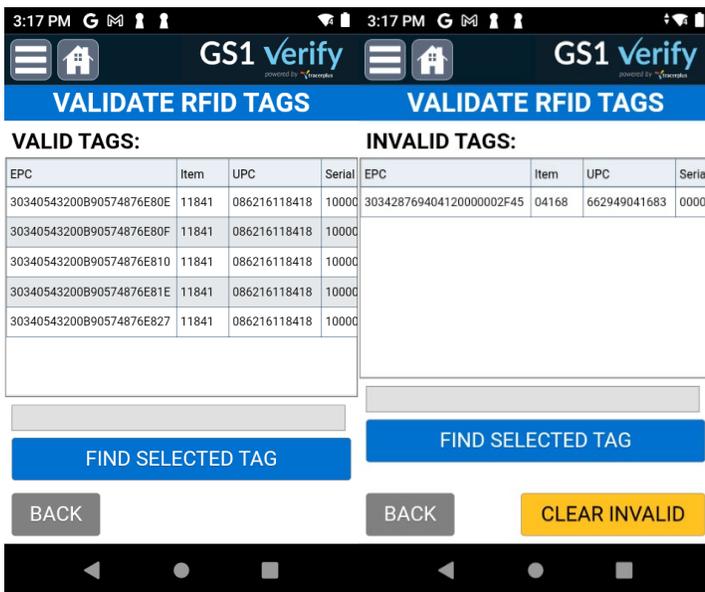
11/15/2023 3:21:14

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**STEP 4-** When scanning is complete, click the **VALIDATE TAGS** button. You will be presented with the validation results, as seen in the screenshot below. Valid tags will be listed in green, and any invalid tags in red.

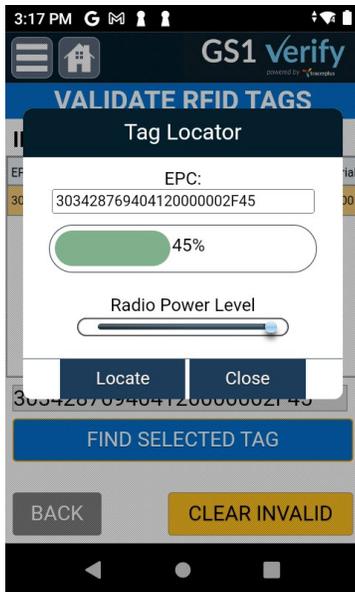


**STEP 5 (optional)-** To view Valid / Invalid tags that were scanned, click the **VIEW** button next to the count you wish to see.

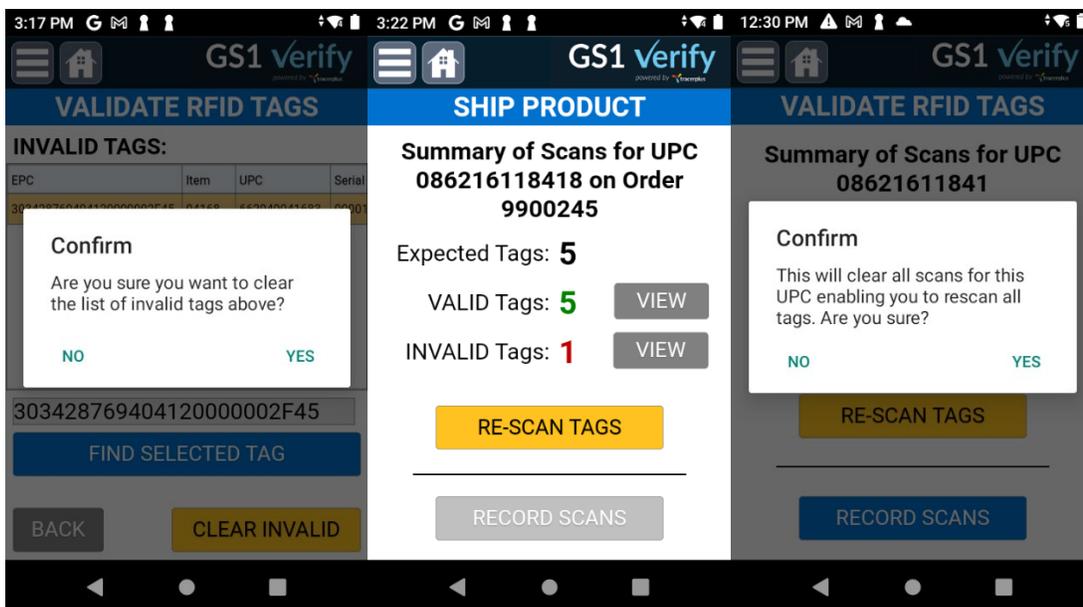


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**STEP 6 (optional)**- To find a tag on this list, select it and click **FIND SELECTED TAG**. This will open the Tag Locator tool to locate the invalid tag. Use the RFID scanner to find the tag. The progress bar will increase as you are closer to the tag, and the beeping will get louder.

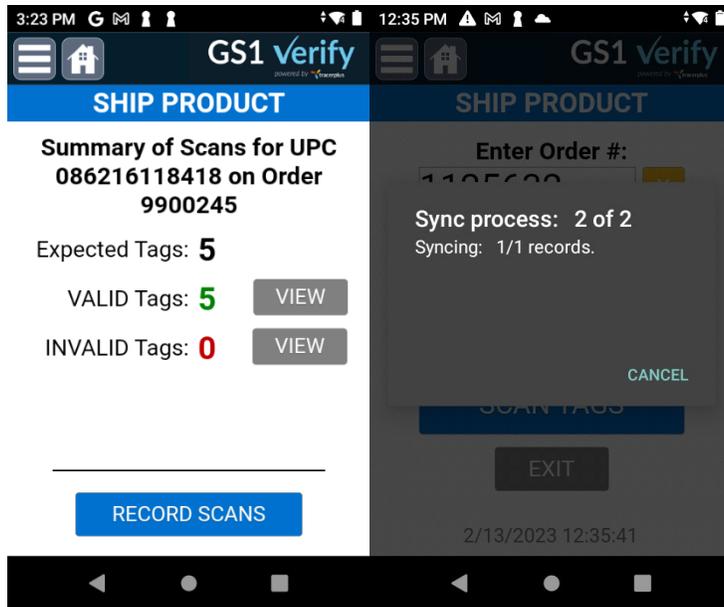


**STEP 7 (optional)**- From the Invalid Tags page, you have the option to clear any bad tags by clicking the **CLEAR INVALID** button. This will remove all invalid tags from the scan. Alternatively, you can click the **RESCAN TAGS** button from the summary page below to clear the current list of valid / invalid scans and repeat **STEP 3** above.

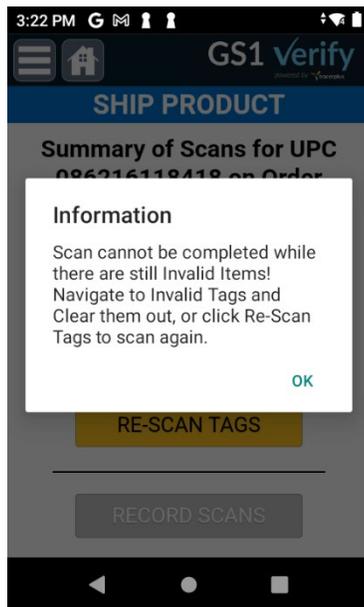


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**STEP 8-** If you choose to Clear all Invalid tags you will be presented with the below when returning to the Summary screen. Click the **RECORD SCANS** button to send the scanned data to the GS1 Cloud. Click **YES** on the prompt to proceed with the sync.



**STEP 9-** In the event you still have invalid tags you will not be allowed to proceed until these are corrected/removed. If you click **RECORD SCANS** with invalid tags you will see the below.



**STEP 10-** Synced data can be viewed in the GS1 Cloud outlined in [Chapter 5](#).

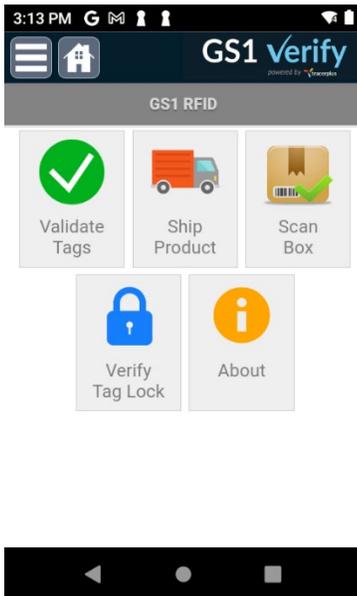
## Session 3: Scan Box

The Scan Box form enables users to scan all GS1 Encoded tags being placed in a box, displaying a quantity of each UPC. This is useful for quickly validating the different types of items and qty being packed into a box.

### Features of Verifying Products for Shipping:

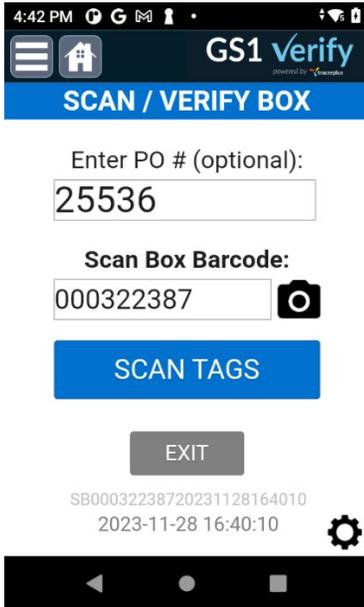
- **Compliance Check:** Quickly validate that your RFID tags are correctly encoded in the GS1 format. All non-GS1 encoded tags will be ignored.
- **Data Verification:** Quickly see the quantity of each UPC being packed.

**STEP 1-** Select **Scan Box** from the main menu:

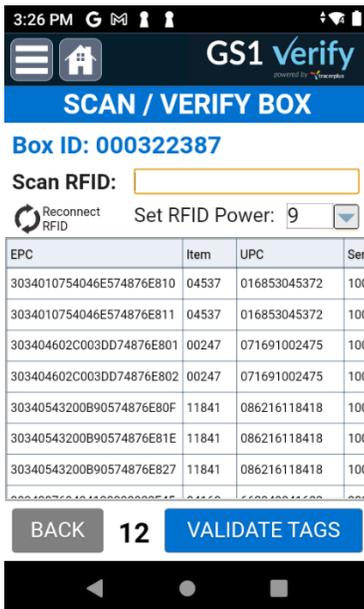


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**STEP 2-** Scan or Key in the PO # being associated with the box (optional), scan the box barcode that you want to validate, then click the **SCAN TAGS** button.

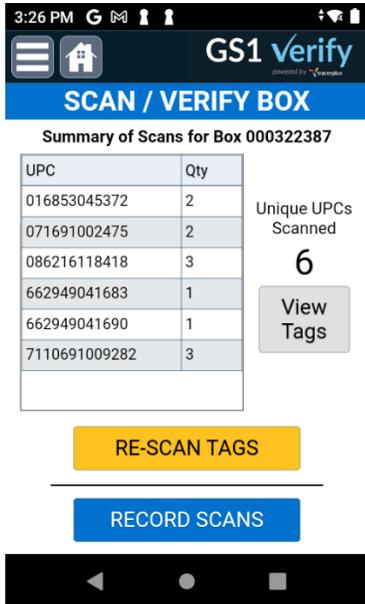


**STEP 3-** Scan all of the RFID tags in the box by pressing and holding the trigger of your RFID reader. As unique tags are scanned they will emit a beep and be displayed in a grid. Note that you can change the RFID Power at any point by choosing it from the drop-down. This is useful if you are picking up tags too far away. The power set here will be retained until changed again.

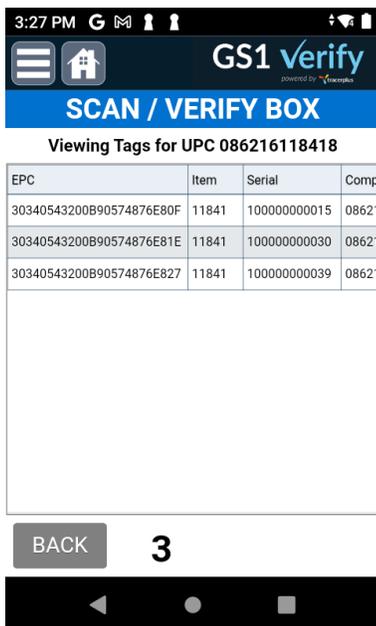


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**STEP 4-** When scanning is complete, click the **VALIDATE TAGS** button. You will be presented with the scan results, as seen in the screenshot below. This will display a listing of all unique UPC values scanned along with the quantity counted for each.

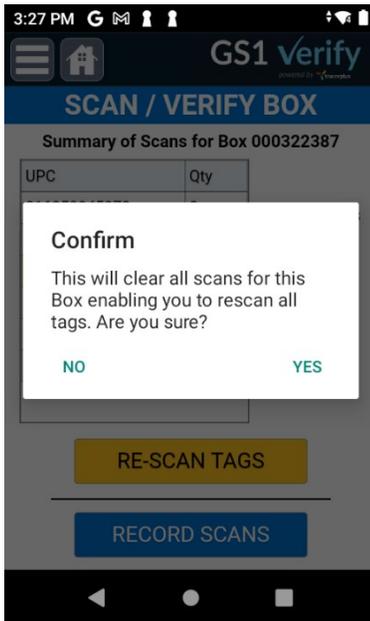


**STEP 5 (optional)-** Select a UPC from this list, then click **View Tags** to view a listing of RFID tags associated with this UPC.

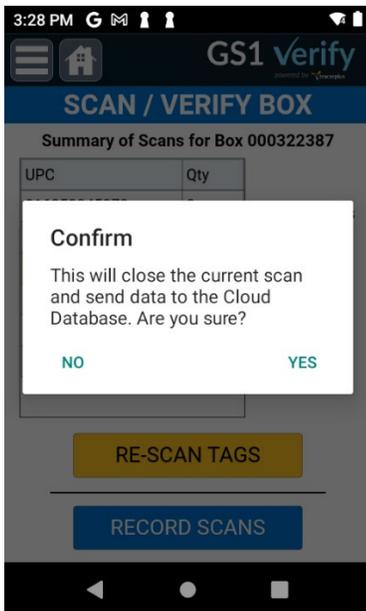


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**STEP 6 (optional)**- In the event you want to rescan tags in this box, click the **RESCAN TAGS** button to clear the current list of scans and repeat **STEP 3** above.



**STEP 7**- Click the **RECORD SCANS** button to send the scanned data to the GS1 Cloud. Click **YES** on the prompt to proceed with the sync.



**STEP 8**- Synced data can be viewed in the GS1 Cloud outlined in [Chapter 5](#).

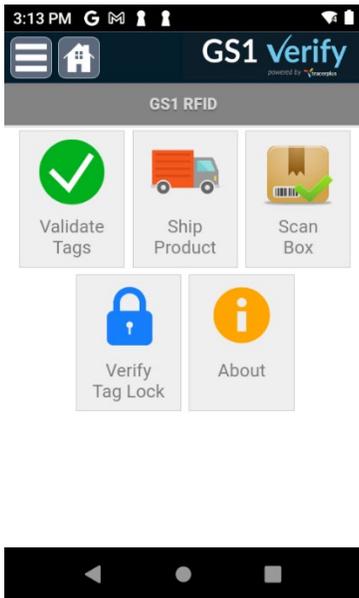
## Session 4: Verify Tag Lock

The Verify Tag Lock function validates that an RFID tag is correctly locked so that the value of the RFID tag cannot be changed. This is a requirement of many organizations. To verify a tag lock with GS1 Verify, follow the steps below.

### Features of Verifying Products for Shipping:

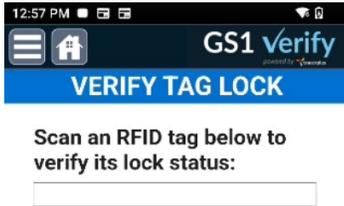
- **Compliance Check:** Quickly validate that your RFID tags are correctly locked.
- **Tag Verification:** Displays a PASS / FAIL result based on tag lock status so you can quickly see if you are encoding your tags properly.

**STEP 1-** Select **Verify Tag Lock** from the main menu:



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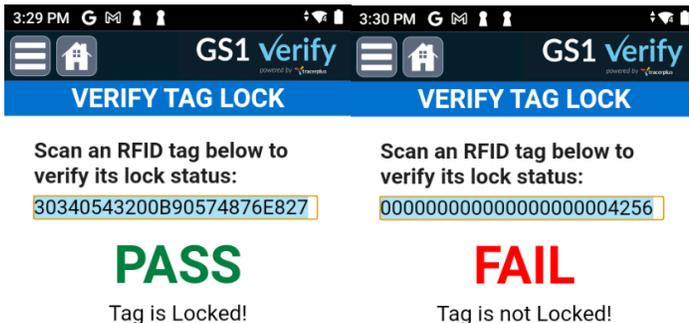
**STEP 2-** Scan the RFID tag you are looking to verify its lock status. This should be done away from all other RFID tags.



Waiting for scan ...



**STEP 3-** Once the tag is scanned, it will attempt to write to the RFID tag displaying the results below. A result of **PASS** means it was not able to write to the tag and is correctly locked / in compliance. A Result of **FAIL** means that it was able to write to the tag confirming that it is not locked. This should be corrected if your vendor requires tags to be locked.



**STEP 4-** No data is stored/synced to the GS1 Cloud and is strictly used for checking the lock state.

## Chapter 5: Viewing Data on the GS1 Cloud

Once data has been synced from the handheld applications outlined in [Chapter 4](#), this collected data can be viewed by logging into the GS1 Verify Cloud as described in [Chapter 3](#). Navigate to <https://gs1.cloud.ptshome.com> and log in with your credentials.

There are two different methods of viewing collected data in the GS1 Cloud.

- VIEW DATA – ALL
- VIEW DATA – BY SCANS

**VIEW DATA – ALL** displays Scan data and Header data in separate views that can be accessed using the drop-down above the Data grid. Selecting **Scans** displays all individual scans done while selecting **Headers** shows a summary for each type of scan done.

UPC	EPC	Status	Device ID	Username	Serial Num.	Company Prefix	Item Ref	Box ID	PO Number	Trans Type	Order Num.	Date Scanned
086301814867	30340544744F93800000138C	VALID	2A152B44F0A92667-A	gs1test	000005004	086301	81486			VALIDATE		2024-03-27 09:25:47
086301814867	30340544744F93800000138B	VALID	2A152B44F0A92667-A	gs1test	000005003	086301	81486			VALIDATE		2024-03-27 09:25:47
786162080004	30342FFBC807D0174876E80F		2A152B44F0A92667-A	gs1test	10000000015	786162	08000	194252818381	194252818381	BOX		2024-03-12 14:42:56
786162080004	30342FFBC807D0174876E80E		2A152B44F0A92667-A	gs1test	10000000014	786162	08000	194252818381	194252818381	BOX		2024-03-12 14:42:56
196559044937	303408FF3C046340000000EF		2A152B44F0A92667-A	gs1test	000000239	196559	04493	194252818381	194252818381	BOX		2024-03-12 14:42:56
786162080004	30342FFBC807D0174876E80D		2A152B44F0A92667-A	gs1test	10000000013	786162	08000	194252818381	194252818381	BOX		2024-03-12 14:42:56
086301814867	30340544744F93800000138B		2A152B44F0A92667-A	gs1test	000005003	086301	81486	194252818381	194252818381	BOX		2024-03-12 14:42:56
94142022614205	30363E98E8FF4B174876E802		2A152B44F0A92667-A	gs1test	10000000002	9414202	261420	071691129073		BOX		2024-02-16 14:39:41
7110691009282	30542B6674629000000004CF		2A152B44F0A92667-A	gs1test	000001231	711069	100928	071691129073		BOX		2024-02-16 14:39:41
7110691009282	30542B6674629000000004CC		2A152B44F0A92667-A	gs1test	000001228	711069	100928	071691129073		BOX		2024-02-16 14:39:41
7110691009282	30542B6674629000000004CB		2A152B44F0A92667-A	gs1test	000001227	711069	100928	071691129073		BOX		2024-02-16 14:39:41
7110691009282	30542B6674629000000004C8		2A152B44F0A92667-A	gs1test	000001224	711069	100928	071691129073		BOX		2024-02-16 14:39:41
554960125988	303836323136		2A152B44F0A92667-A	gs1test	000000NaN	55496	012598	071691129073		BOX		2024-02-16 14:39:41
7110691009282	30542B6674629000000004C6		2A152B44F0A92667-A	gs1test	000001222	711069	100928	071691129073		BOX		2024-02-16 14:39:41
94142021512168	30363E98E893AC174876E802		2A152B44F0A92667-A	gs1test	10000000002	9414202	151216	071691129073		BOX		2024-02-16 14:39:41
9414202117165	30363E98E86D19174876E802		2A152B44F0A92667-A	gs1test	10000000002	9414202	111716	071691129073		BOX		2024-02-16 14:39:41
7639051009651	30342EA0D46299574876E802		2A152B44F0A92667-A	gs1test	10000000002	763905	100965	071691129073		BOX		2024-02-16 14:39:41
086216118418	30340543200B90574876E810		2A152B44F0A92667-A	gs1test	10000000016	086216	11841	071691129073		BOX		2024-02-16 14:39:41
086216118418	30340543200B90574876E80F		2A152B44F0A92667-A	gs1test	10000000015	086216	11841	071691129073		BOX		2024-02-16 14:39:41
0773322055552	303404B850C8BCD74876E804		2A152B44F0A92667-A	gs1test	10000000004	077332	205555	071691129073		BOX		2024-02-16 14:39:41
7110691009282	30542B6674629000000019CCF		2A152B44F0A92667-A	gs1test	000105679	711069	100928	071691129073		BOX		2024-02-16 14:39:41

Data can be filtered by clicking the **Filters** button if you are looking for a specific tag or Transaction Type.

Data can be exported to a .csv file by clicking the **Export** button. This is useful for further review and import into a 3<sup>rd</sup> party system. Note that the Export feature respects any filters that have been applied.

## GS1 VERIFY USER GUIDE

**VIEW DATA – BY SCANS** displays a summary of each type of scan done enabling you to select a specific scan and view its associated individual scans in a grid below. Once a specific scan is selected from the top grid, it will only display the items associated with that specific scan in the grid below allowing you to view all the tag’s info.

The screenshot shows the GS1 Verify Cloud Console interface. The main content area is titled "View Data - By Scans" and contains two tables. The first table, "Headers", shows a summary of scans with 24 rows. The second table, "Scans", shows individual scan details with 2 rows.

UPC	Expected Qty.	Actual Qty.	Discrepancy	Trans Type	Order Num.	Box ID	PO Number	Username	Date Scanned
086301814867	4	2	-2	VALIDATE				gs1test	2024-03-27 09:25:54
086301810418		2		BOX		194252818381	194252818381	gs1test	2024-03-12 14:42:56
086301814867		1		BOX		194252818381	194252818381	gs1test	2024-03-12 14:42:56
086301524087		2		BOX		194252818381	194252818381	gs1test	2024-03-12 14:42:56
086301514088		1		BOX		194252818381	194252818381	gs1test	2024-03-12 14:42:56

EPC	Status	Username	UPC	Serial Num.	Company Prefix	Item Ref.	Box ID	PO Number	Trans Type	Order Num.	Date Scanned
30340544744F93800000138B	VALID	gs1test	086301814867	000005003	086301	81486			VALIDATE		2024-03-27 09:25:47
30340544744F93800000138C	VALID	gs1test	086301814867	000005004	086301	81486			VALIDATE		2024-03-27 09:25:47

Data can be filtered by clicking the **Filters** button if you are looking for a specific tag or Transaction Type.

Data can be exported to a .csv file by clicking the **Export** button. This is useful for further review and import into a 3<sup>rd</sup> party system. Note that the Export feature respects any filters that have been applied.