

Training Manual for Hierarchy Change

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1. Document Control

1.1 Version History

Version	Date	Description of Change	Author / Company
1.0	18-Oct-2022	First Version	EVOTEQ

Table 1 Version History Main Approvals

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2. Purpose

The purpose of this document is to describe the business processes and functionalities of Tatmeen, Ministry of Health and Prevention (MoHAP) Track and Trace system.

The document details the solution and various controls that are adopted for the processes. The document details the solution and various control that are adopted for the processes.

3. Introduction

This document provides a high-level, as well as detailed description of the business process and flows of the Tatmeen system.

4. Tutorial Hierarchy Change

Hierarchy Change indicates a change in packaging as the goods move through the distribution process.



Figure 1 Hierarchy Change

"Aggregation" refers to capturing and maintaining parent-child relationships between different packaging levels of a product. The Aggregation process involves serializing products at the saleable unit level, then associating those units to the next levels of the packaging hierarchy (e.g. cases and then cases into pallets).

To enable this, the cases are also serialized with their own serialized GTINs or SSCC numbers, and these are then associated with pallets. The pallet will typically have a unique SSCC number assigned. Please refer to the Serialisation Implementation User Guide in <https://tatmeen.ae/documents> for more details about serialization requirements and the different serialization levels.

All the goods that are subject to serialization must be aggregated in Tatmeen as they are physically packed using the Hierarchy change transaction.



Figure 2 Aggregation Levels

There are three modes of hierarchy change in Tatmeen:

- **Pack** – we add one or more child items into a parent item
- **Unpack** – we disaggregate/subtract from the parent item one or more child items
- **Unpack all** – we disaggregate/subtract all child items from the parent item

Select Hierarchy Change in the navigation menu in the Portal or Mobile to access Hierarchy Change documents.



Figure 3 Portal Hierarchy Change navigation menu

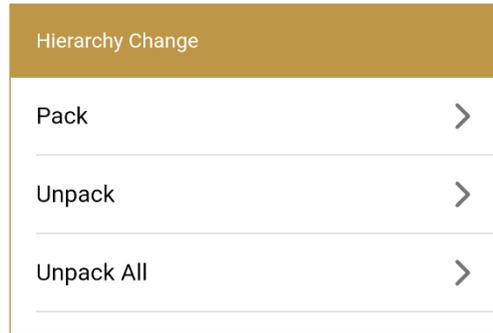


Figure 4 Mobile Hierarchy Change navigation menu

4.1 Hierarchy Change - Pack

Packing is a product hierarchy update where we add one or more unpacked child items into an existing or new parent item.

If the parent is a logistic unit, like a pallet, it will normally be identified by a SSCC code. If a partner is unable to generate its own SSCC codes, they can be obtained via the Tatmeen portal using the Commissioning -> SSCC Request option. (Please see the Training Manual for Mobile Commissioning for further details, the SSCC code obtained this way will only be commissioned when used in a packing operation).

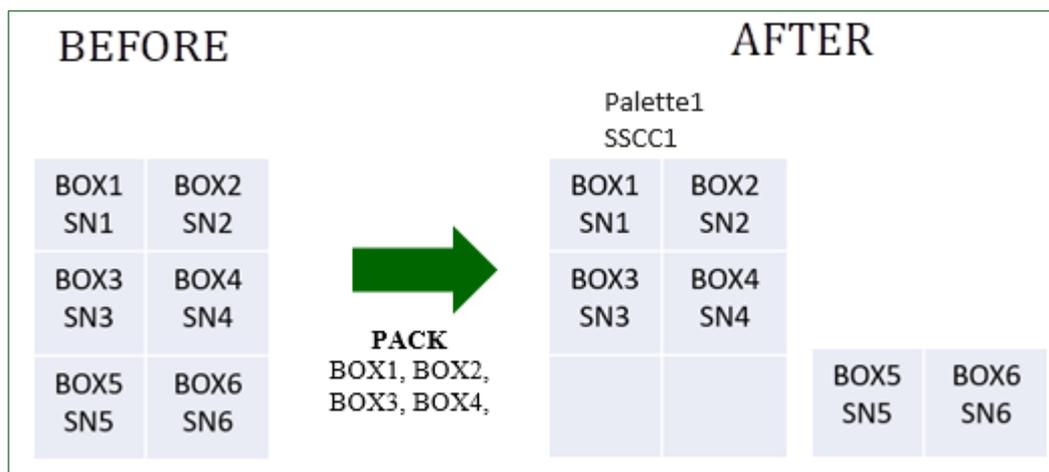


Figure 5 Pack items

4.1.1 Hierarchy Change – Pack - Portal

To pack items, in the navigation menu select Hierarchy Change → Pack.

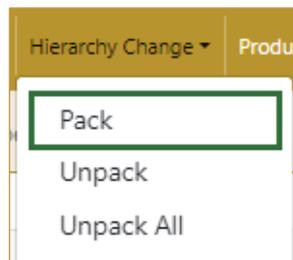


Figure 6 Portal navigation menu - Pack

The packaging process comprises 3 steps:

- Step 1 – Adding child items
- Step 2 – Adding a parent item
- Step 3 – Packing confirmation

4.1.1.1 Adding items to pack

On this page, you add one or more child items that need to be packed. Each item must be serialized as per the guidelines defined in the Serialization Implementation User Guide.

Items can be added manually by entering values or by scanning with a scanner. To continue to the next page at least one SSCC or SGTIN item must be added.

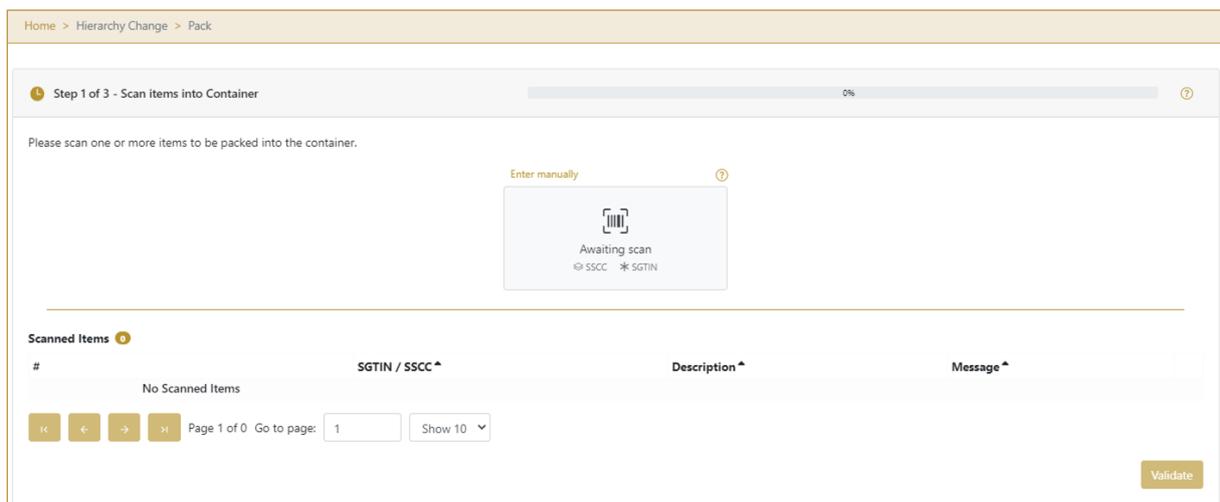


Figure 7 Pack Adding items

If you press Clock  a new page opens for the Historical view where past packing operations done by the user are displayed (see section 4.1.1.5 for more details).

4.1.1.1.1 Adding items with scanning

When the first page opens and once the focus is on the application, the application is ready to scan the barcode with a scanner, and a scanned item will be added.

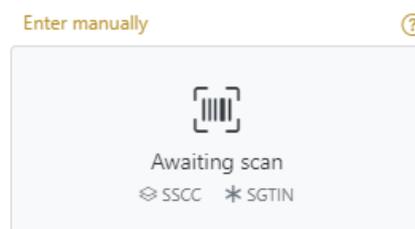


Figure 8 Pack - Scan item

If the application doesn't have focus, scanning is not possible. First, add the focus to the application (click anywhere within application screen) so scanning will be possible.

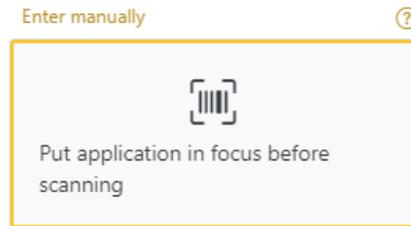


Figure 9 Pack - Missing focus

4.1.1.1.2 Adding SSCC manually

Item can also be added manually. For manual data entry press Enter manually **Enter manually** where a new page opens.

SSCC = (00)SSCC

Serial Shipping Container Code

To add an SSCC Item to the packing list, enter the SSCC value in the field SSCC-(00) and press OK 

If you want to return to the previous page press Cancel 

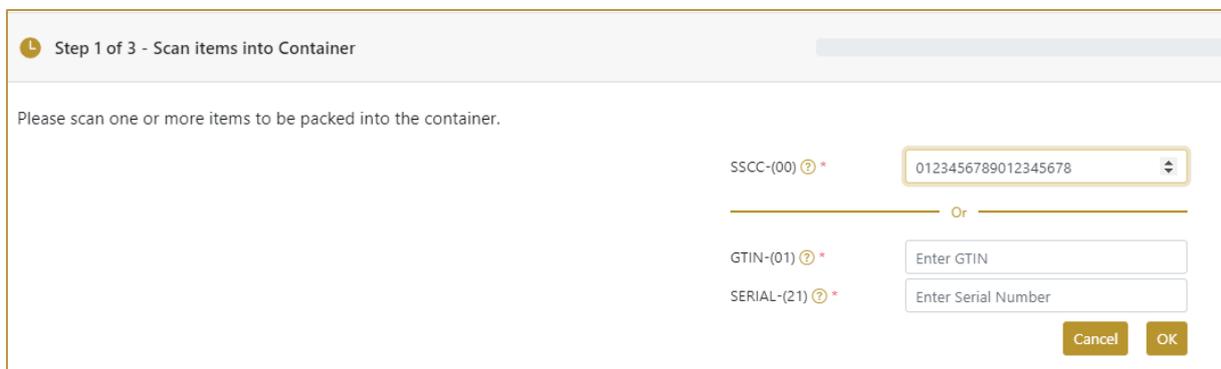


Figure 10 Manual adding of SSCC item

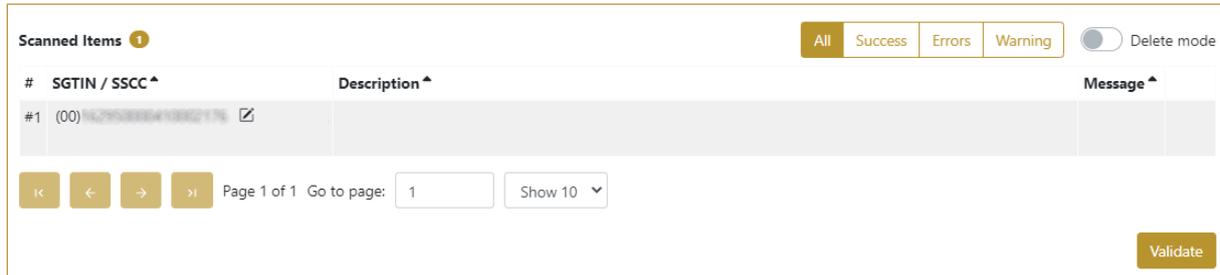


Figure 11 Successfully added SSCC item

4.1.1.1.3 Adding SGTIN manually

Item can be added also manually. For manual data entry press Enter manually **Enter manually** where a new page opens.

SGTIN = (01)GTIN(21)SERIAL

Global Trade Item Number

To add an SGTIN Item to the packing list, enter the GTIN value of the product in the field GTIN-(01), and the serial number value in the field SERIAL-(21) and press OK



If you want to return to the previous page press Cancel

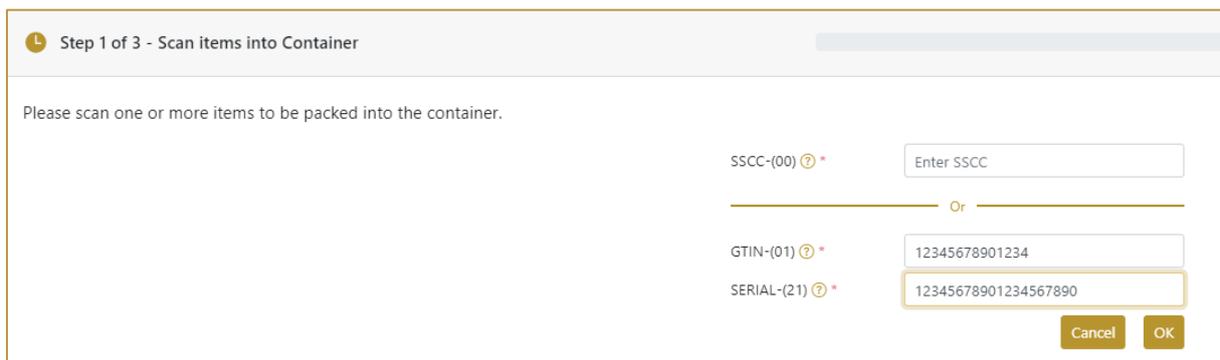


Figure 12 Manual adding of SGTIN item

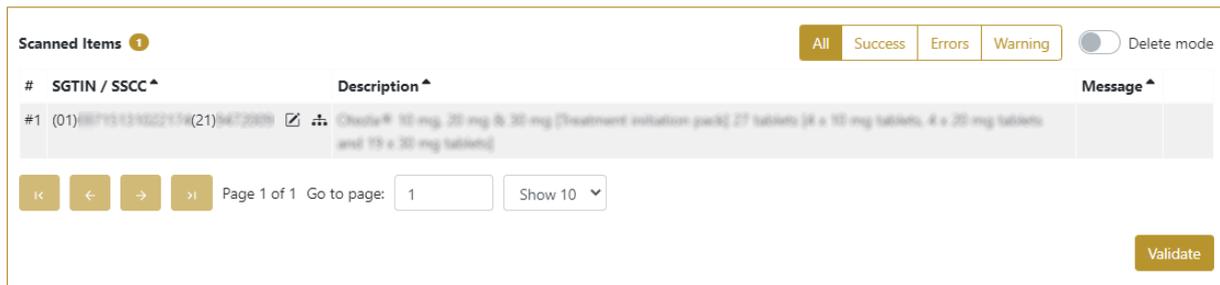
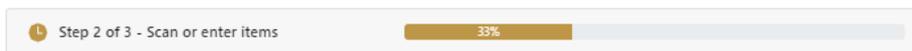


Figure 13 Successfully added SGTIN item

4.1.1.1.4 Review of the added items

When an item is added to the list, you can review all items, check for possible issues, and remove unneeded items.

The progress bar shows advancement through the process



Scanned items 2 shows the total of all items on the list

It is possible to filter the list of scanned items using



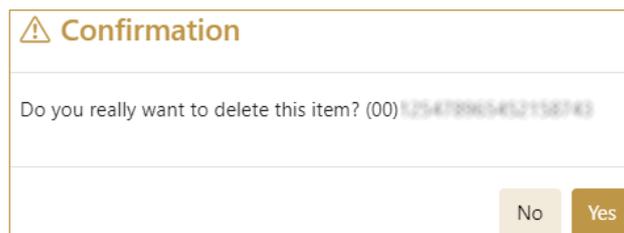
Filter options:

- **All** - shows all items
- **Success** - filter to only successfully added items
- **Errors** - filter to items with error
- **Warning** - filter to items with a warning

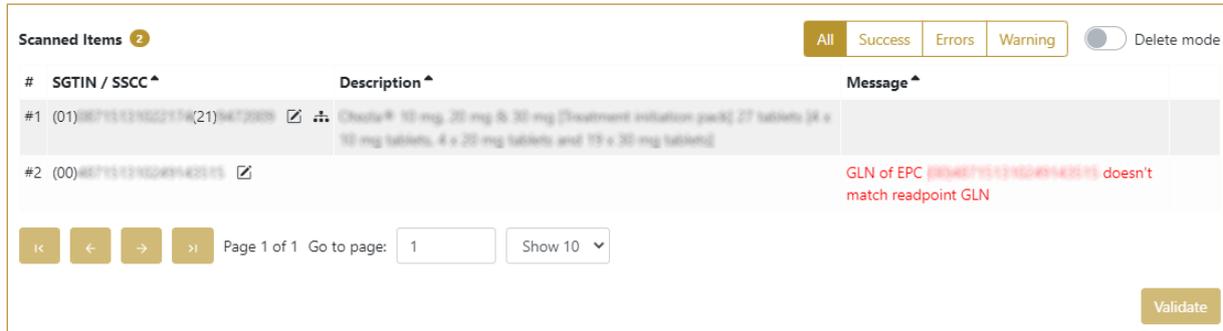
Select Delete mode to remove added items. Delete mode

In Delete mode, a delete icon will appear on each row.

Press Delete  to remove an item. Deletion will require confirmation.



The Message column on this page provides guidance for issues with listed items.



When all issues with added items are solved and there is no error message, press Validate  to re-check all added items again and to proceed to the next page.

4.1.1.2 Add parent unit

On this page, you add the SSCC parent item (SGTIN cannot be added as a parent). Child items from the previous page will be packed into this parent item code.

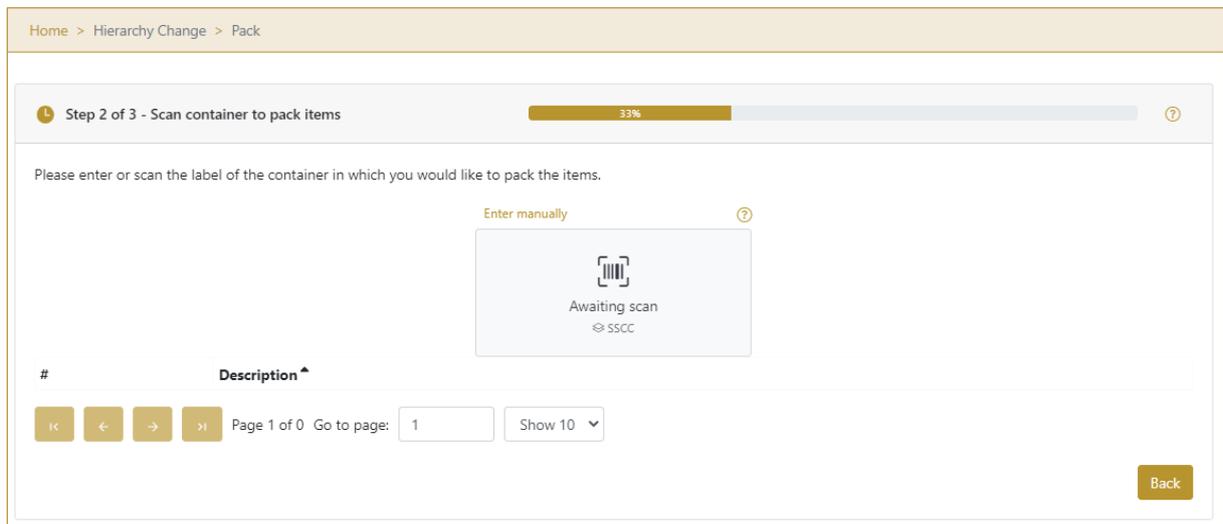


Figure 14 Add Parent unit

4.1.1.2.1 Adding parent item with scanning

Once the focus is on the application, the application is ready to scan the barcode with a scanner, and a scanned item will be added.

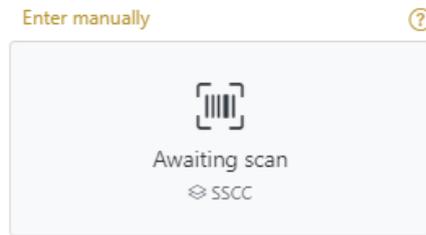


Figure 15 Pack – Scan parent item

If the application doesn't have focus, scanning is not possible. First, add the focus to the application so scanning will be possible.

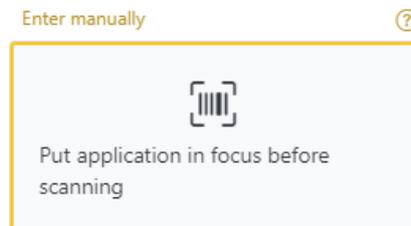


Figure 16 Pack - Missing focus on the parent page

For returning to the previous page for adding/removal of items press Back

A small, rounded rectangular button with the word "Back" in white text on a brown background.

4.1.1.2.2 Adding SSCC manually

Item can be added also manually. For manual data entry press Enter manually **Enter manually** where a new page opens.

SSCC = (00)SSCC

Serial Shipping Container Code

To add an SSCC parent item, enter the SSCC value in the field SSCC-(00) and press

OK 

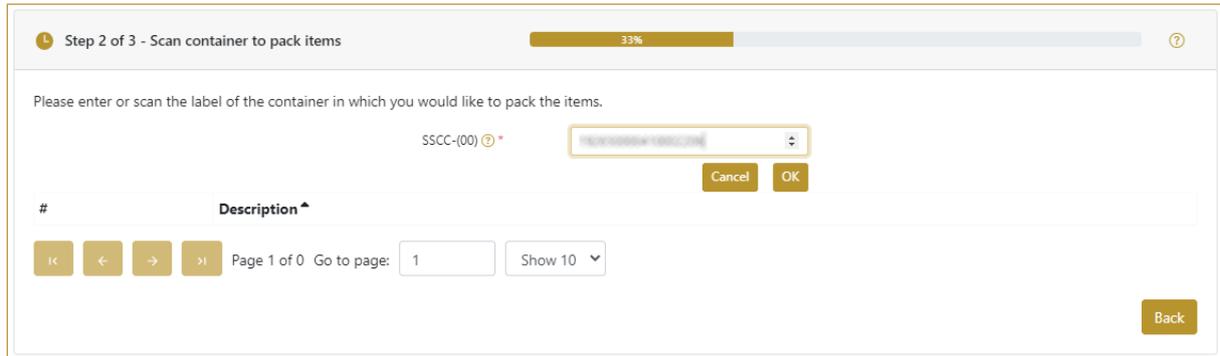


Figure 17 Manual adding of SSCC parent item

If there are no issues with entered SSCC data you will progress straight through to the next page.

If you want to return to the previous page press Cancel



If there are any issues with entered SSCC data, an error is shown why entered SSCC code cannot be used. Continuation to the next page is not possible until the error is corrected.

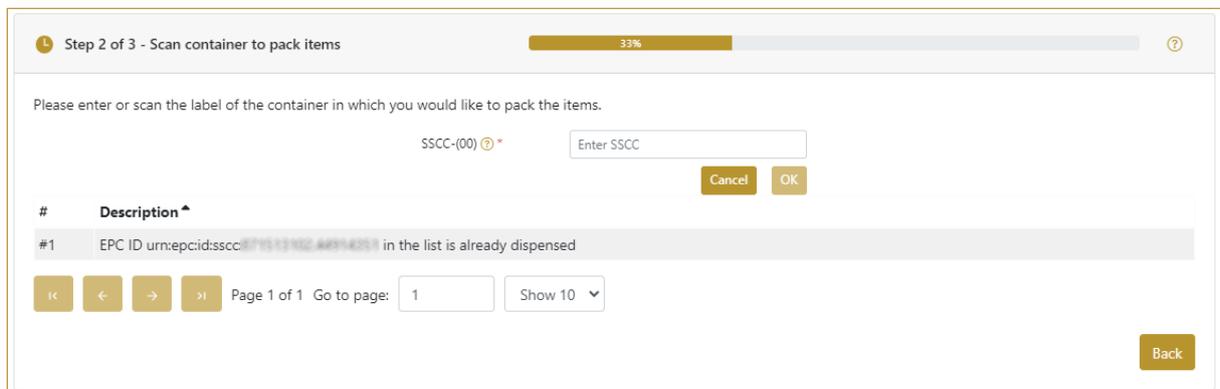


Figure 18 Unsuccessfully added SSCC item

4.1.1.3 Packing Confirmation

On this page, you will confirm that the packing list contains all the items which need to be added to the parent SSCC.

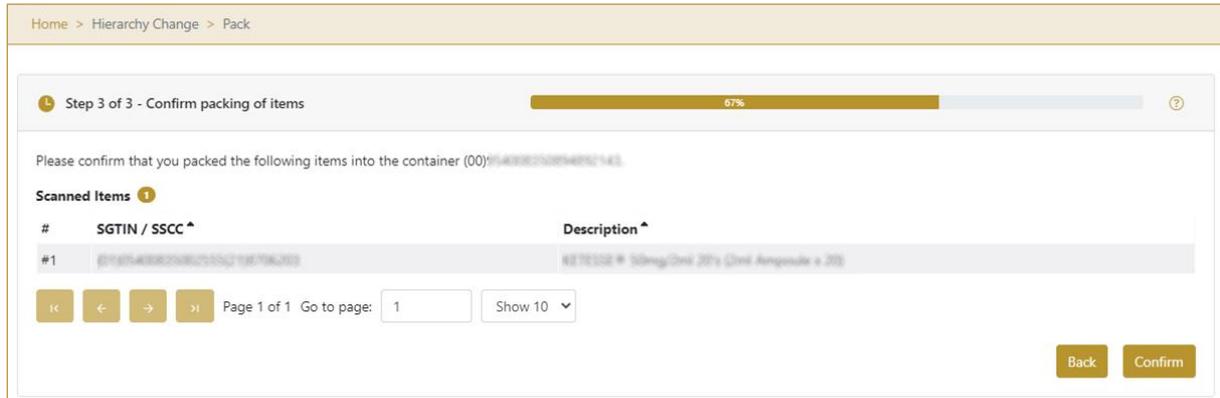


Figure 19 Pack Confirmation

The number of items (SSCC, SGTINs) contained in the pack list is shown as **Scanned items 1**

To return to the previous page for changing the parent SSCC item press **Back**

A warning prompt will appear if any other pages are selected before this information is confirmed.

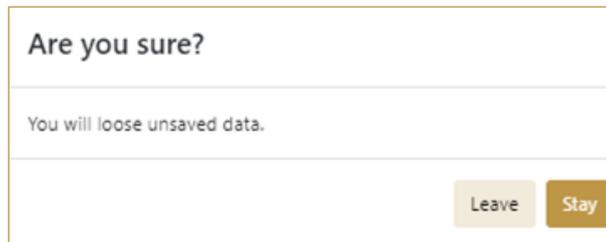


Figure 20 Pack Warning

For final confirmation of packing press **Confirm**

4.1.1.4 Pack completed

This page indicates you successfully added child items to a parent item.

If you want to pack new child items to a different parent item, press **Pack another container**

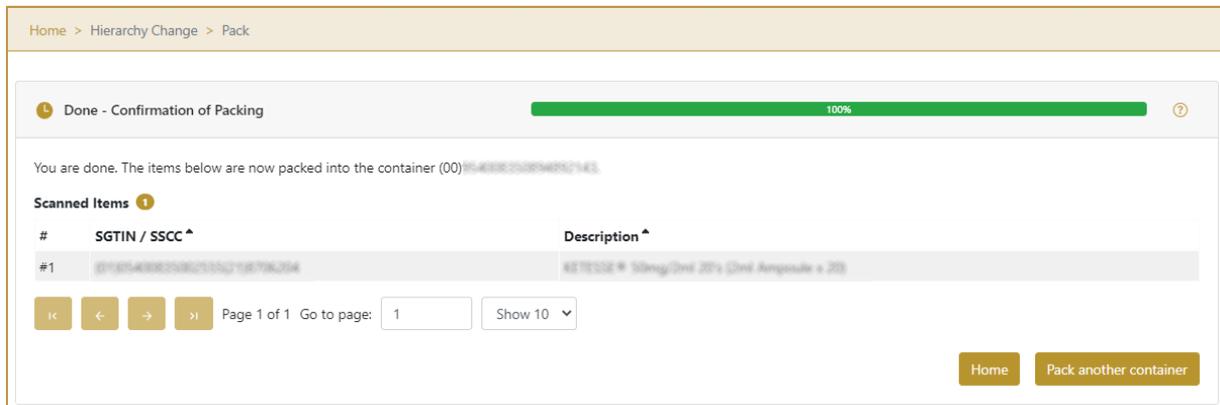


Figure 21 Pack completed

4.1.1.5 Historical view

On the Historical view, past packing operations done by the user are displayed according to default filter settings.

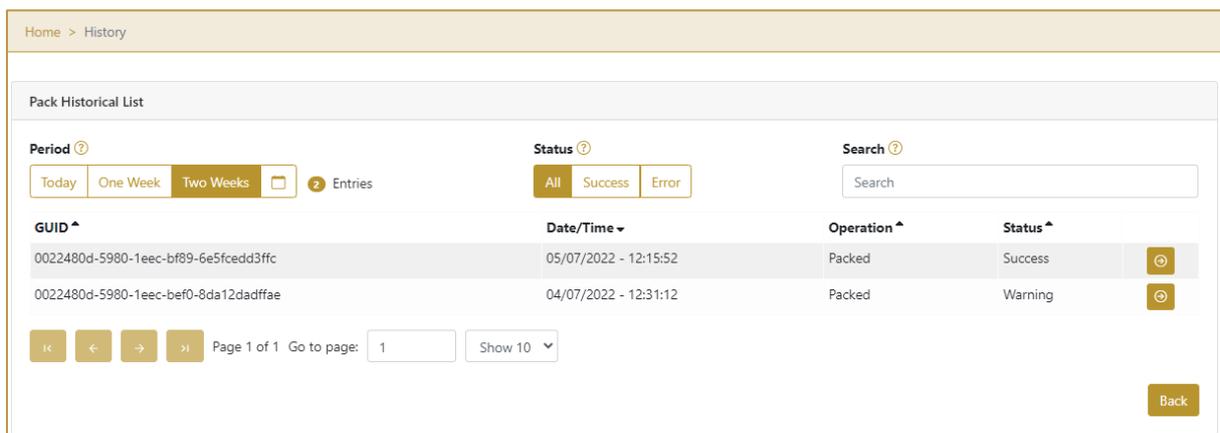


Figure 22 Historical view

To continue to the next page press Details  in the last column

If you want to return to the first page of the packing press Back 

4.1.1.5.1 Filter options

Filters can be used to help you find a specific initiation or initiation cancellation.

If you need to search by any string, start by entering desired string and the results will be automatically filtered and displayed in the table below.



Figure 23 Filter options - Search

Right from each column name, you will find  To sort data in a table ascending or descending, click once or twice on the arrow or the field name.



Figure 24 Sort

If you search for an item for a specific time frame, then using these options



Figure 25 Filter options – Time frame

Filters:

Today – all items processed on the last day are displayed

One week – all items from the last week are displayed

Two weeks – all items from the last two weeks are displayed

Calendar – all items for the selected period are displayed

For a longer period select calendar.

Use arrows and a dropdown menu  **March**  **2022**   to select month and year. Press on a day number to select the start time. Repeat the process to select the end time.

When you select the date, items are displayed automatically in the table below.

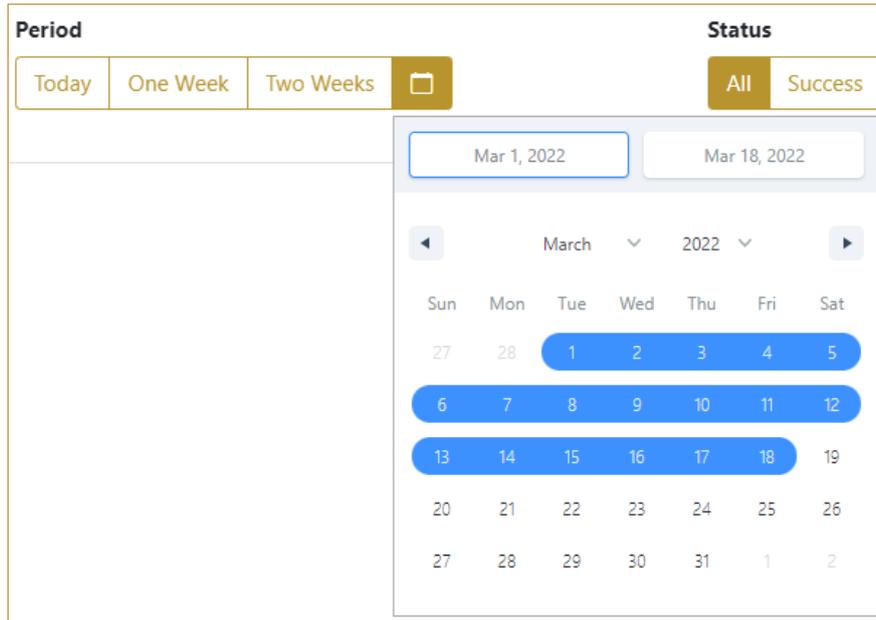


Figure 26 Filter options – Calendar

If you are interested in a specific status press one of the status options.



Figure 27 Filter options – Status

Filters:

All – all items regardless of the status are displayed

Success – only successfully processed items by Tatmeen are displayed

Error – only items that were unsuccessfully processed/failed are displayed

4.1.1.6 Historical view Details

On this page, you can see details for the selected item from the previous page.

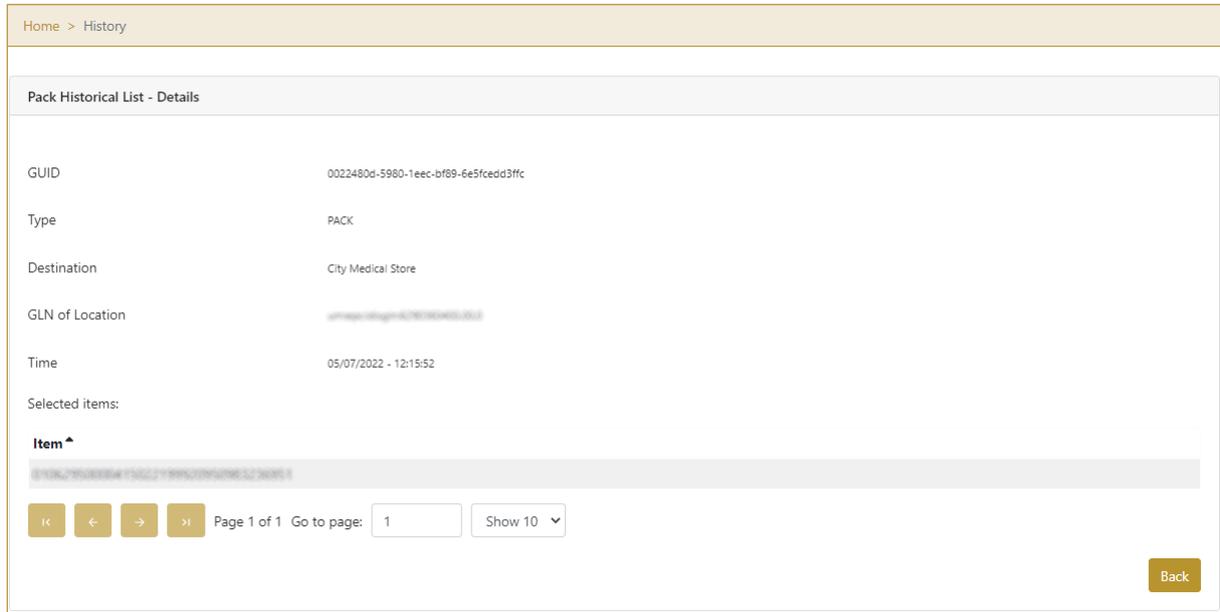


Figure 28 Historical view Details

To return to the previous page press Back



4.1.2 Hierarchy Change – Pack - Mobile

To pack items, in the navigation menu select Hierarchy Change → Pack.

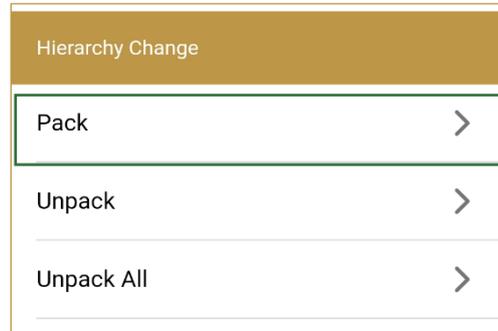


Figure 29 Mobile navigation menu - Pack

The packaging process comprises 3 steps:

- Step 1 – Adding child items
- Step 2 – Adding a parent item
- Step 3 – Packing confirmation

4.1.2.1 Adding items to pack

On this page, you add one or more child items that need to be packed. Each item must be serialized as per the guidelines defined in the Serialization Implementation User Guide.

Items can be added manually by entering values or by scanning with a scanner. To continue to the next page at least one SSCC or SGTIN item must be added.

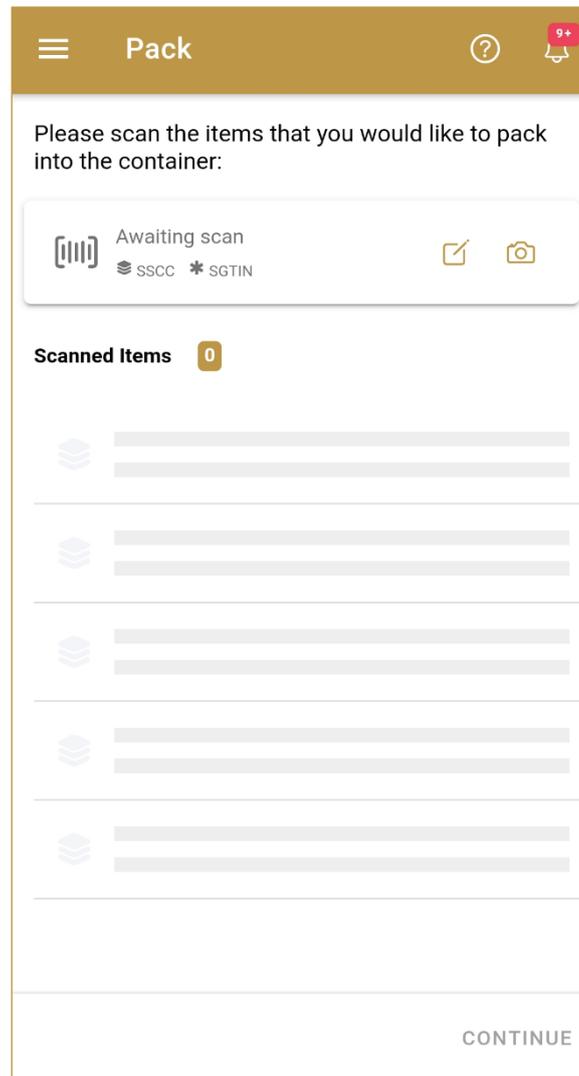


Figure 30 Pack Adding items

4.1.2.1.1 Adding items with scanning

When the first page opens, the application is already ready to scan the barcode with a

scanner or press Camera  to use the camera for scanning.

4.1.2.1.2 Adding SSCC manually

Item can be added also manually. For manual data entry press Edit  where the new page opens.

SSCC = (00)SSCC

Serial Shipping Container Code

To add an SSCC Item to the packing list, enter the SSCC value in the field SSCC-(00) and press OK 

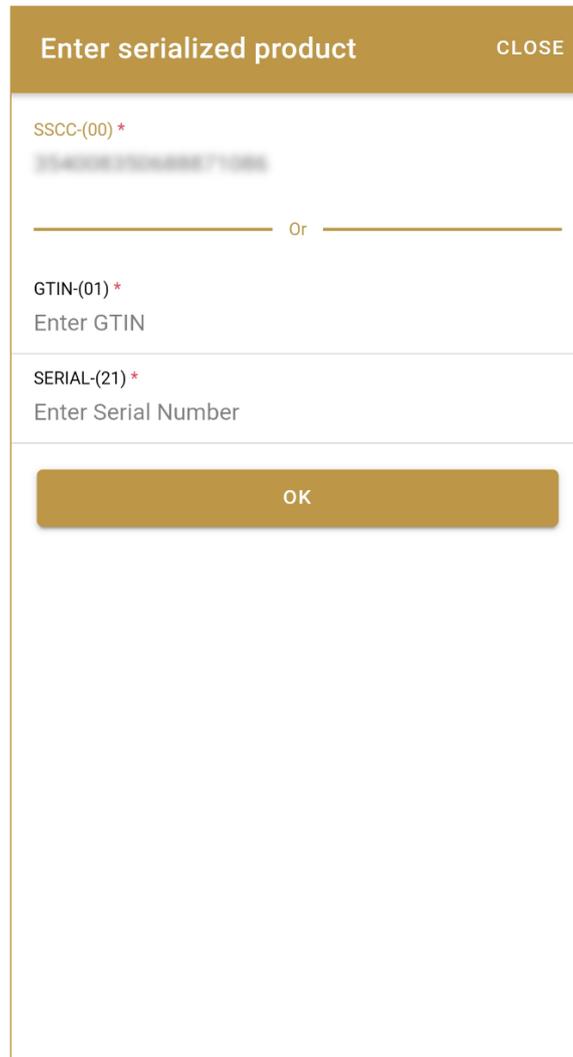
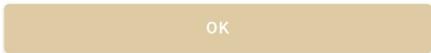
A screenshot of a mobile application dialog box titled "Enter serialized product" with a "CLOSE" button in the top right corner. The dialog contains three input fields: "SSCC-(00) *" with a placeholder "SSCC (00) (0000000000)", "GTIN-(01) *" with a placeholder "Enter GTIN", and "SERIAL-(21) *" with a placeholder "Enter Serial Number". There is an "Or" separator between the SSCC and GTIN fields. At the bottom of the dialog is a large "OK" button.

Figure 31 Manual adding of SSCC item

If no value is entered, OK  will be disabled and it will not be possible to continue to the next page.

If you want to return to the previous page and cancel the entry press Close 

If you press OK, the SSCC Item is then added to the packing list and has an icon 

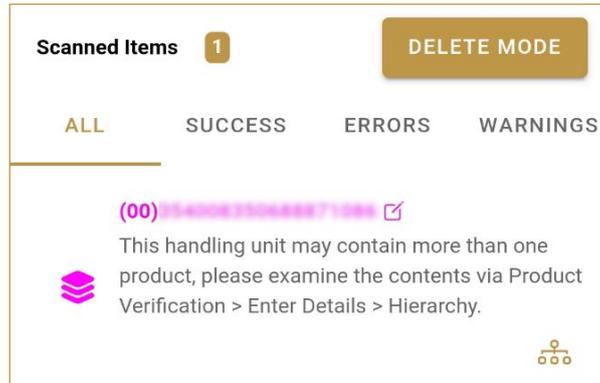


Figure 32 Successfully added SSCC item

4.1.2.1.3 Adding SGTIN manually

Item can be added also manually. For manual data entry press Edit  where the new page opens.

SGTIN = (01)GTIN(21)SERIAL

Global Trade Item Number

To add an SGTIN Item to the packing list, enter the GTIN value of the product in the field GTIN-(01), and the serial number value in the field SERIAL-(21) and press OK



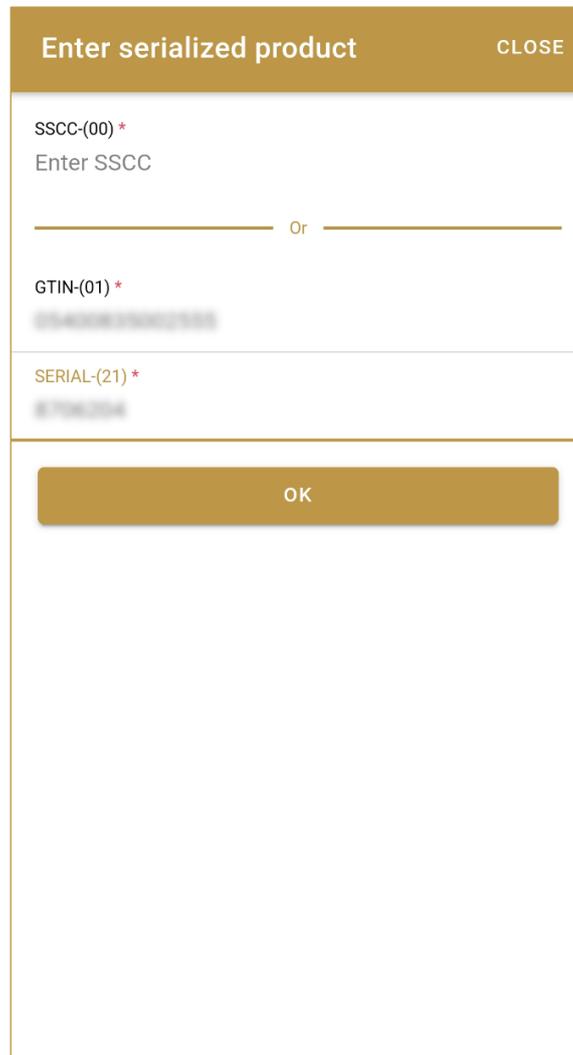
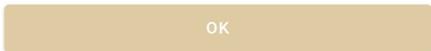
A screenshot of a mobile application dialog box titled "Enter serialized product" with a "CLOSE" button in the top right corner. The dialog contains three input fields: "SSCC-(00) *" with the placeholder "Enter SSCC", "GTIN-(01) *" with a blurred placeholder, and "SERIAL-(21) *" with a blurred placeholder. Below the input fields is a large "OK" button.

Figure 33 Manual adding of SGTIN item

If no value is entered, OK  will be disabled and it will not be possible to continue to the next page.

If you want to return to the previous page and cancel the entry press Close



If you press OK, the SGTIN Item is then added to the packing list and has an icon 

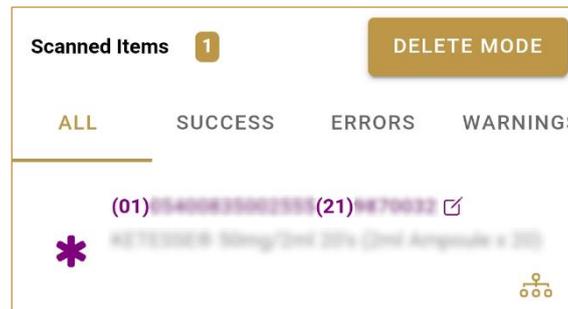


Figure 34 Successfully added SGTIN item

4.1.2.1.4 Review of the added items

When an item is added to the list, you can review all items, check for possible issues, and remove unneeded items.

Scanned Items  shows the total of all items on the list

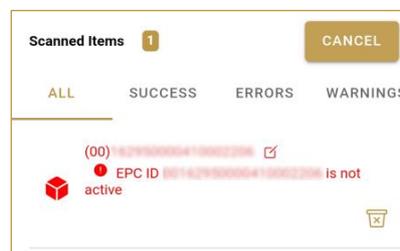
It is possible to filter the list of scanned items using 

Filter options:

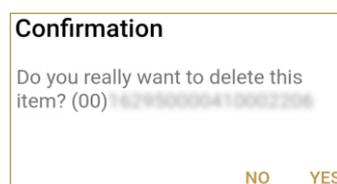
- **All** - shows all items
- **Success** - filter to only successfully added items
- **Errors** - filter to items with error
- **Warnings** - filter to items with a warning

Select Delete mode to remove added items. 

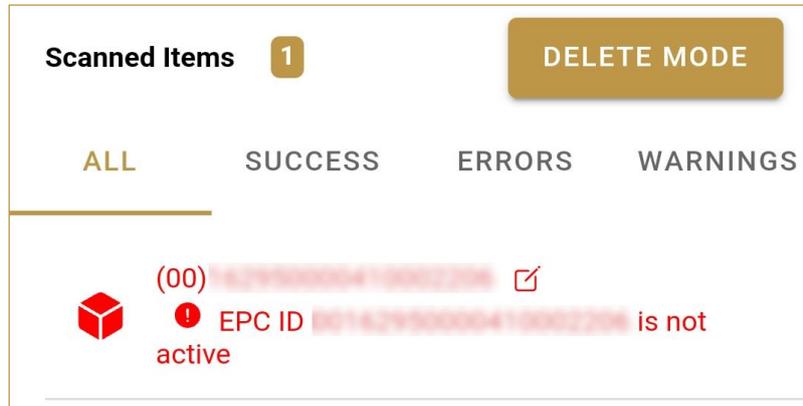
In Delete mode, a delete icon will appear on each row.



Press Delete  to remove an item. Deletion will require confirmation.



Red messages under items provide guidance for issues with listed items.



When all issues with added items are solved and there is no error message, press Continue **CONTINUE** to proceed to the next page.

4.1.2.2 Add parent unit

On this page, you add the SSCC parent item (SGTIN cannot be added as a parent). Child items from the previous page will be packed with this parent item code.

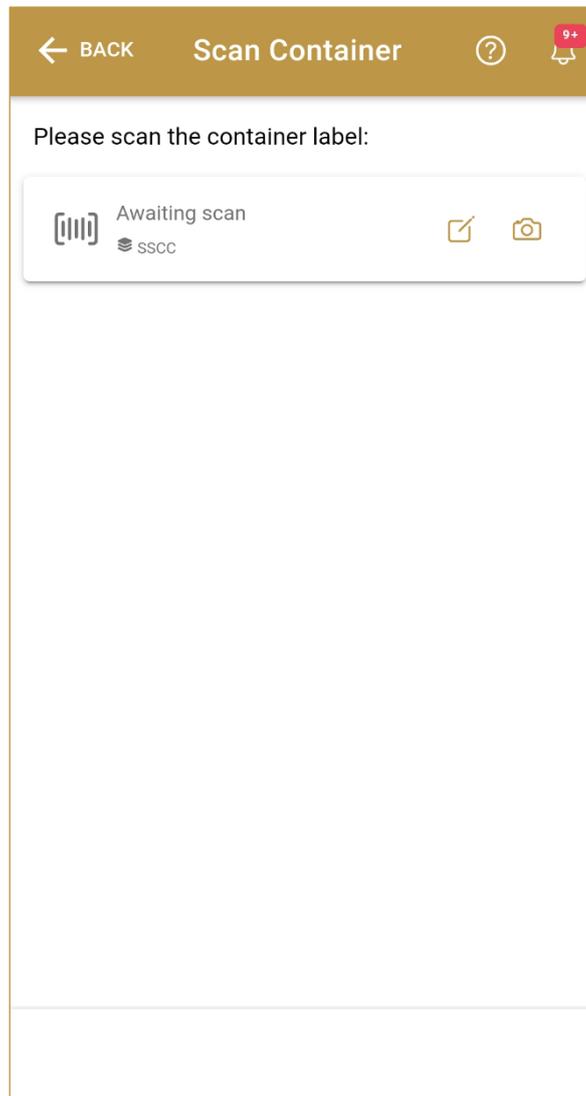


Figure 35 Add Parent unit

4.1.2.2.1 Adding parent item with scanning

When the first page opens, the application is already ready to scan the barcode with a scanner.

Or press Camera  to use the camera for scanning.

If there are no issues with entered data you will progress straight through to the confirmation page.

4.1.2.2.2 Adding SSCC manually

Item can be added also manually. For manual data entry press Edit  where the new page opens.

SSCC = (00)SSCC

Serial Shipping Container Code

To add an SSCC parent item, enter the SSCC value in the field SSCC-(00) and press

OK 

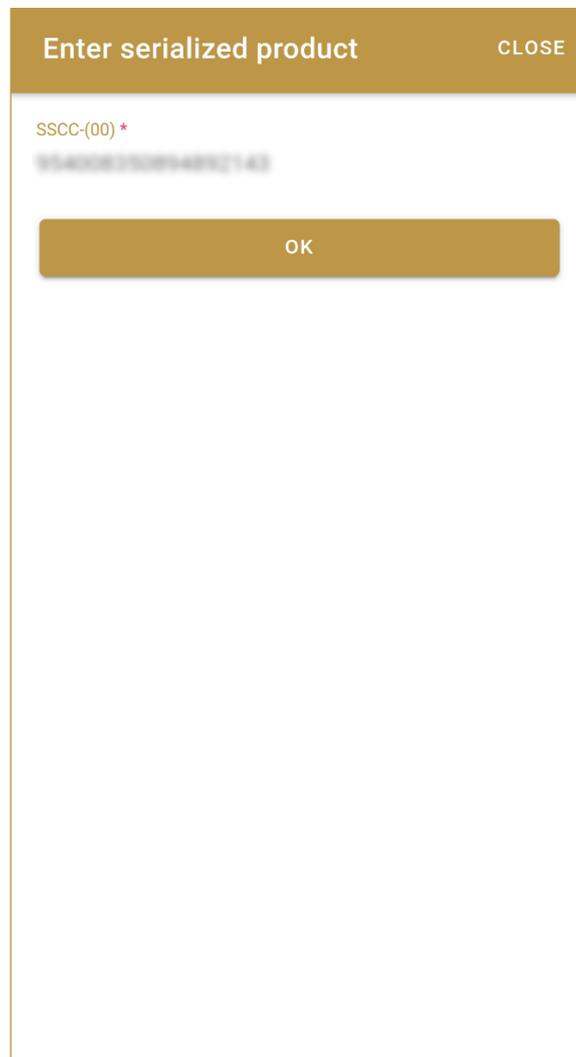
A screenshot of a mobile application dialog box titled "Enter serialized product" with a "CLOSE" button in the top right corner. The dialog contains a text input field labeled "SSCC-(00) *" with a red asterisk indicating it is required. The field contains a blurred alphanumeric string. Below the input field is a large, rounded rectangular "OK" button.

Figure 36 Manual adding of SSCC parent item

If no value is entered, OK  will be disabled and it will not be possible to continue to the next page.

If you want to return to the previous page press Close 

If there are no issues with entered SSCC data you will progress straight through to the next page.

If there are any issues with entered SSCC data, an error is shown why entered SSCC code cannot be used. Continuation to the next page is not possible until the error is corrected.

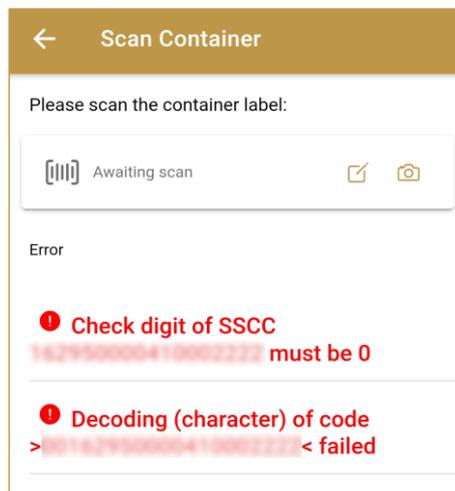


Figure 37 Unsuccessfully added SSCC item

4.1.2.3 Packing Confirmation

On this page, you will confirm that the packing list contains all the items which need to be added to the parent SSCC.

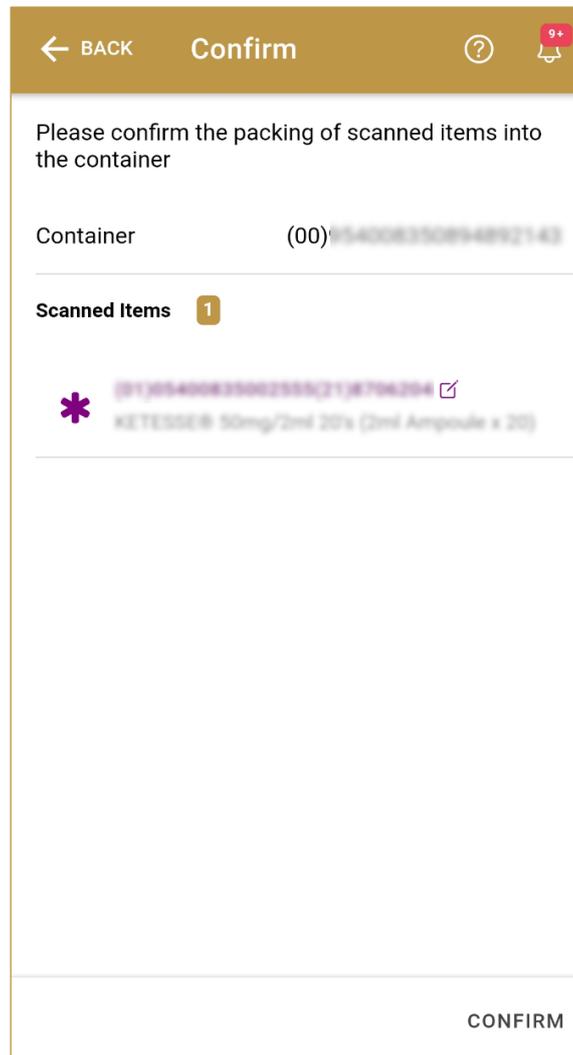


Figure 38 Pack Confirmation

The number of items (SSCC, SGTINs) contained in the pack list is shown as **Scanned Items 1**

To return to the previous page for changing the parent SSCC item press Back



For final confirmation of packing press Confirm **CONFIRM**

4.1.2.4 Pack completed

This page indicates you successfully added child items to a parent item.

If you want to pack new child items to a different parent item, press Do Another
DO ANOTHER

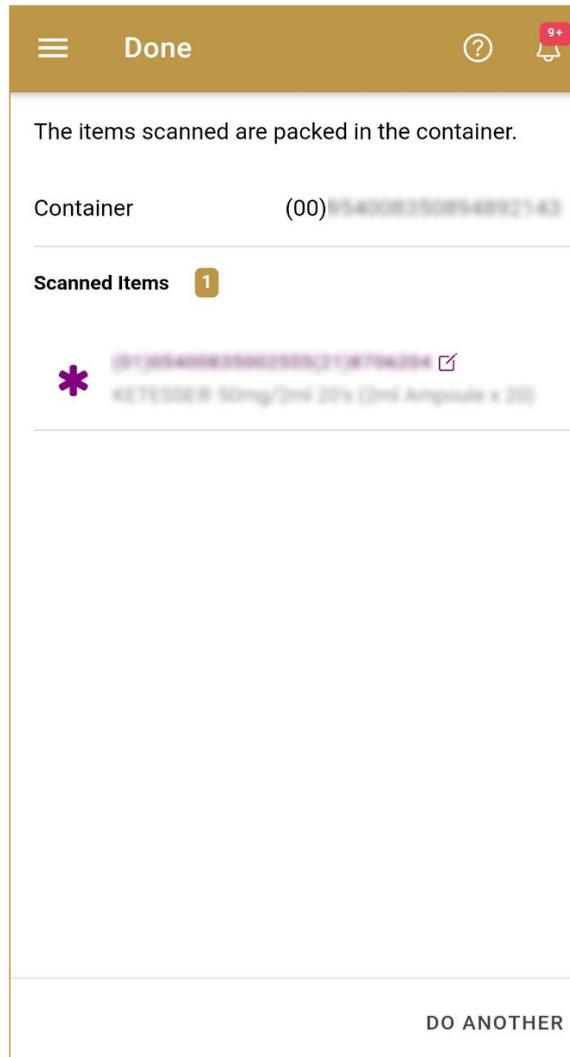


Figure 39 Pack completed

4.2 Hierarchy Change - Unpack

Unpacking is an update to the product hierarchy where we disaggregate/subtract one or more child units from the parent unit.

The parent unit remains with the rest of the unpacked children. The unpacked items remain in the same status, except they no longer have a parent unit.

Unpacking items from a logistic unit doesn't change its status, and other items can be packed in, even if all the items are removed. The exception is if the "Unpack All" transaction of the Tatmeen Mobile and Portal is used. In this case, the parent SSCC will be also decommissioned upon completion of the transaction.

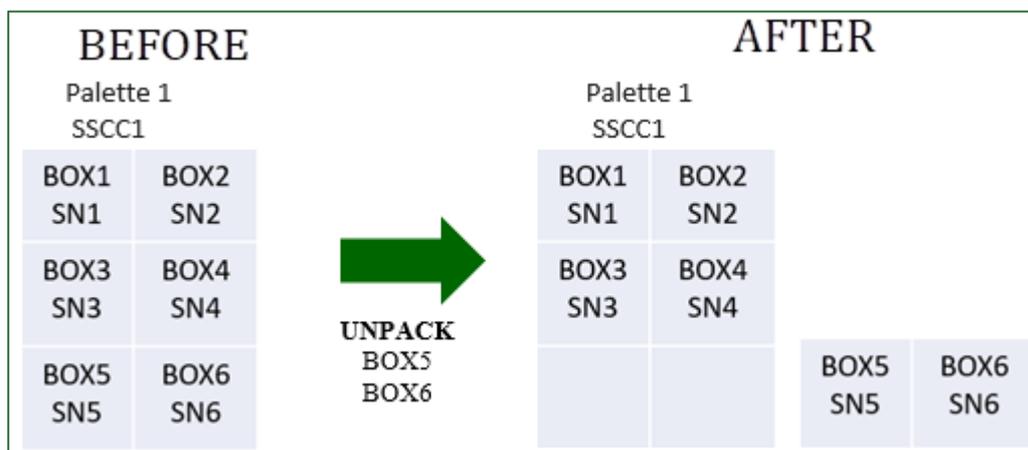


Figure 40 Unpack items

4.2.1 Hierarchy Change – Unpack - Portal

To unpack items, in the navigation menu select Hierarchy Change → Unpack.

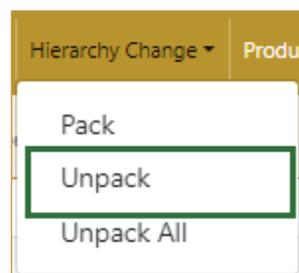


Figure 41 Portal navigation menu - Unpack

For the unpacking process you will need 3 steps:

- Step 1 – Select a parent item
- Step 2 – Select child items

- Step 3 – Unpacking confirmation

4.2.1.1 Add parent unit

On this page, you add the SSCC parent item from which child items will be disaggregated/subtracted.

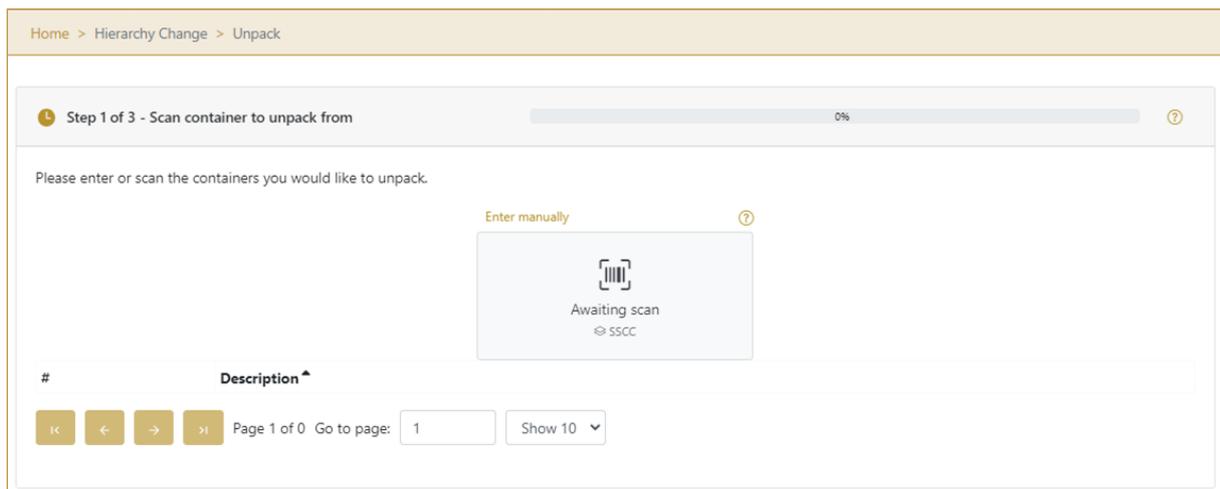


Figure 42 Add Parent unit

If you press Clock  a new page opens for the Historical view where past unpacking operations performed by the same user are displayed. See section 4.2.1.5 for more details.

You cannot unpack one item out of SGTIN parent, only all items can be unpacked in such scenario so Unpack All function is needed.

4.2.1.1.1 Adding parent item with scanning

Once the focus is on the application, the application is ready to scan the barcode with a scanner, and a scanned item will be added.

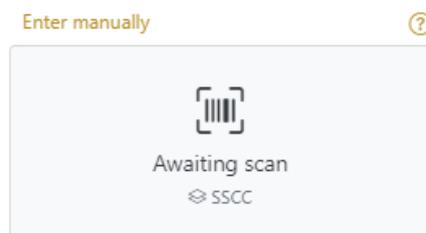


Figure 43 Unpack – Scan parent item

If the application doesn't have focus, scanning is not possible. First, add the focus to the application so scanning will be possible (click anywhere within the application screen).

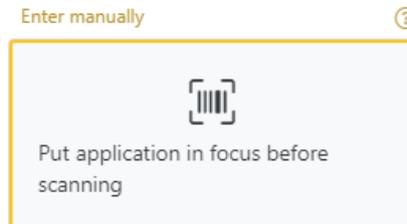


Figure 44 Unpack - Missing focus on the parent page

4.2.1.1.2 Adding SSCC manually

Item can be added also manually. For manual data entry press Enter manually **Enter manually** where a new page opens.

SSCC = (00)SSCC

Serial Shipping Container Code

To add an SSCC parent item, enter the SSCC value in the field SSCC-(00) and press

OK 

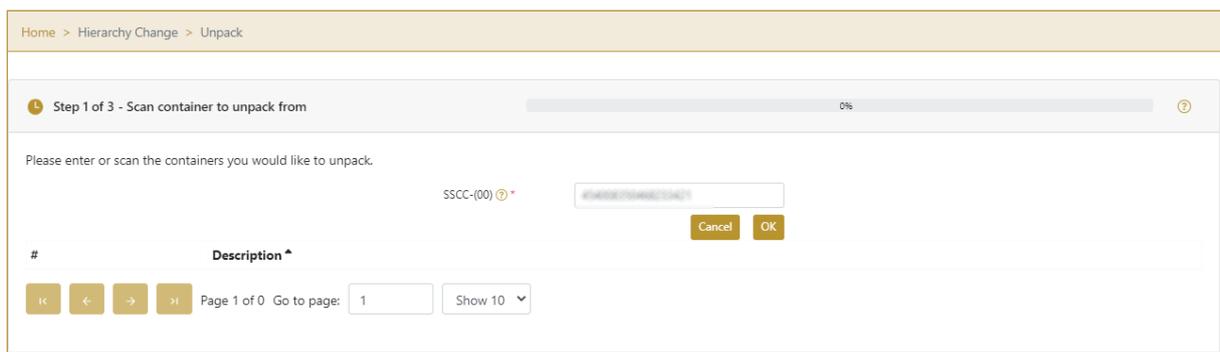


Figure 45 Manual adding of SSCC parent item

If you want to return to the previous page press Cancel 

If there are no issues with entered SSCC data you will progress straight through to the next page.

If there are any issues with entered SSCC data, an error is shown why entered SSCC code cannot be used. Continuation to the next page is not possible until the error is corrected.

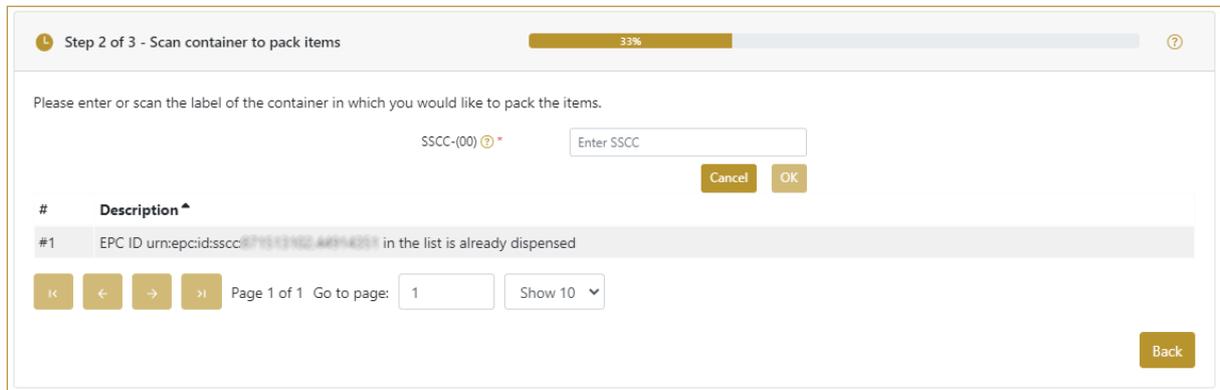


Figure 46 Unsuccessfully added SSCC item

4.2.1.2 Adding items to unpack

On this page, you add one or more child items that need to be unpacked. If the items are not recorded in Tatmeen

Items can be:

- SSCC or
- SGTIN

Items can be added manually by entering values or by scanning with a scanner. To continue to the next page at least one SSCC or SGTIN item must be added.

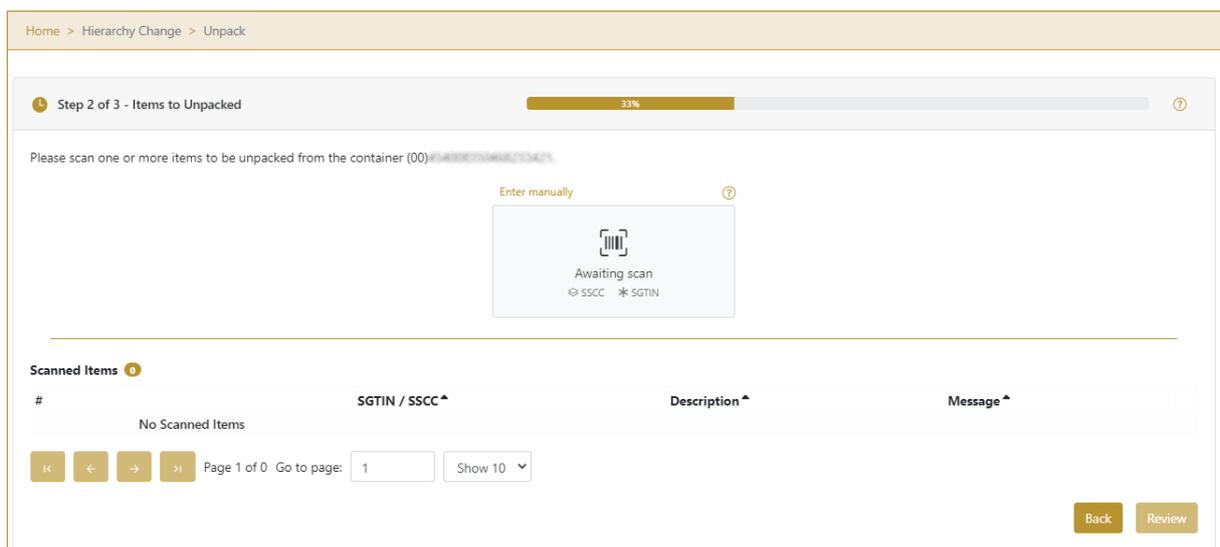


Figure 47 Unpack Adding items

4.2.1.2.1 Adding items with scanning

When the first page opens and once the focus is on the application, the application is ready to scan the barcode with a scanner, and a scanned item will be added.

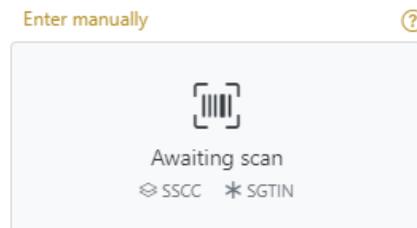


Figure 48 Unpack - Scan item

If the application doesn't have focus, scanning is not possible. First, add the focus to the application so scanning will be possible.

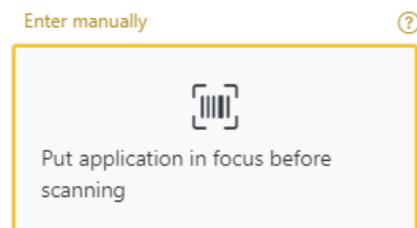


Figure 49 Unpack - Missing focus

4.2.1.2.2 Adding SSCC manually

Item can be added also manually. For manual data entry press Enter manually **Enter manually** where a new page opens.

SSCC = (00)SSCC

Serial Shipping Container Code

To add an SSCC Item to the unpacking list, enter the SSCC value in the field SSCC-

(00) and press OK 



Figure 50 Manual adding of SSCC item

If you want to return to the previous page press Cancel

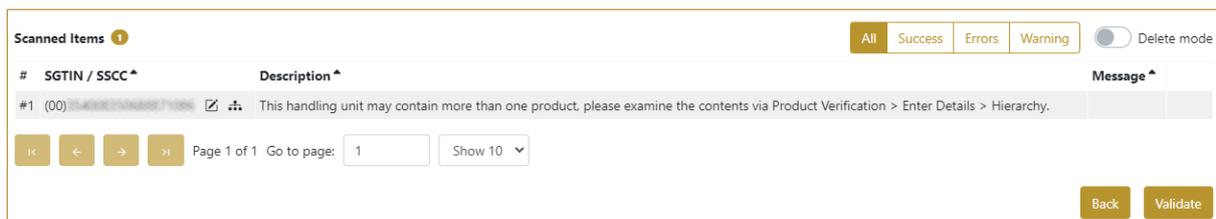



Figure 51 Successfully added SSCC item

4.2.1.2.3 Adding SGTIN manually

Item can be added also manually. For manual data entry press Enter manually **Enter manually** where a new page opens.

SGTIN = (01)GTIN(21)SERIAL

Global Trade Item Number

To add an SGTIN Item to the unpacking list, enter the GTIN value of the product in the field GTIN-(01), and the serial number value in the field SERIAL-(21) and press OK



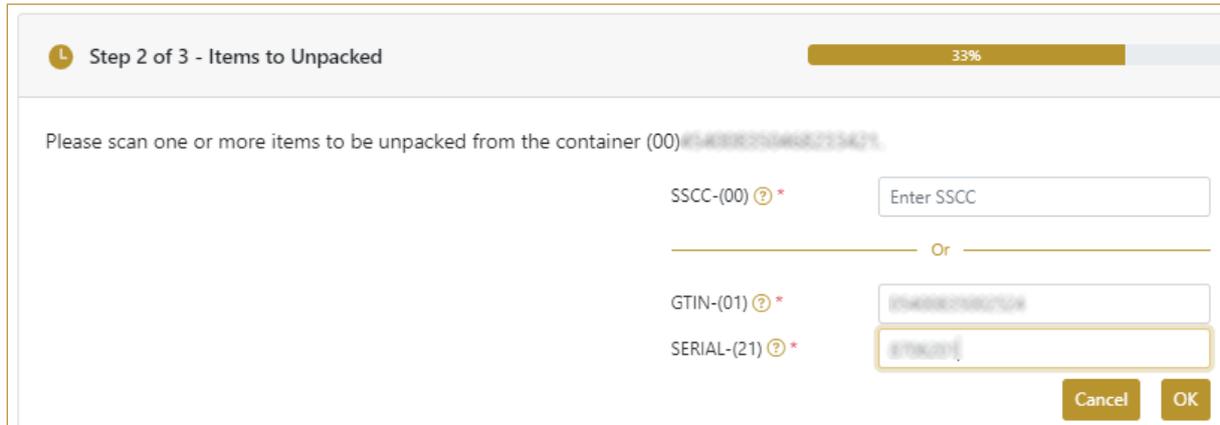
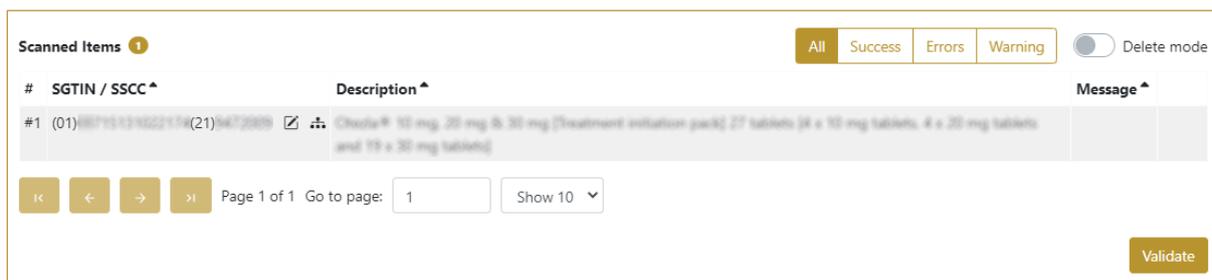


Figure 52 Manual adding of SGTIN item

If you want to return to the previous page press Cancel

#	SGTIN / SSCC	Description	Message
#1 (01)	07468021046233421 (21) 8796221	Chocla® 10 mg, 20 mg & 30 mg (Treatment initiation pack) 27 tablets (8 x 10 mg tablets, 4 x 20 mg tablets and 15 x 30 mg tablets)	

Figure 53 Successfully added SGTIN item

4.2.1.2.4 Review of the added items

When an item is added to the list, you can review all items, check for possible issues, and remove unneeded items.

The progress bar shows advancement through the process



Scanned items shows the total of all items on the list



It is possible to filter the list of scanned items using

Filter options:

- **All** - shows all items
- **Success** - filter to only successfully added items
- **Errors** - filter to items with error

- **Warning** - filter to items with a warning

Select Delete mode to remove added items.  Delete mode

In Delete mode, a delete icon will appear on each row.

Press Delete  to remove an item. Deletion will require confirmation.

 **Confirmation**

Do you really want to delete this item? (00)125478965432158743

The Message column on this page provides guidance for issues with listed items.

Scanned Items 2		All Success Errors Warning <input type="checkbox"/> Delete mode	
#	SGTIN / SSCC ^	Description ^	Message ^
#1	(01) 80715131922111 (21) 472809	Chocla® 10 mg, 20 mg & 30 mg (Treatment initiation pack) 27 tablets (4 x 10 mg tablets, 4 x 20 mg tablets and 19 x 30 mg tablets)	
#2	(00) 807151319249142515		GLN of EPC (80487151319249142515) doesn't match readpoint GLN

Page 1 of 1 Go to page: Show 10 ▼

To return to the previous page press Back 

When all issues with added items are solved and there is no error message, press

Validate  to re-check all added items again and to proceed to the next page.

4.2.1.3 Unpacking Confirmation

This page confirms that the unpacking list contains all the items which need to be removed from the parent SSCC.

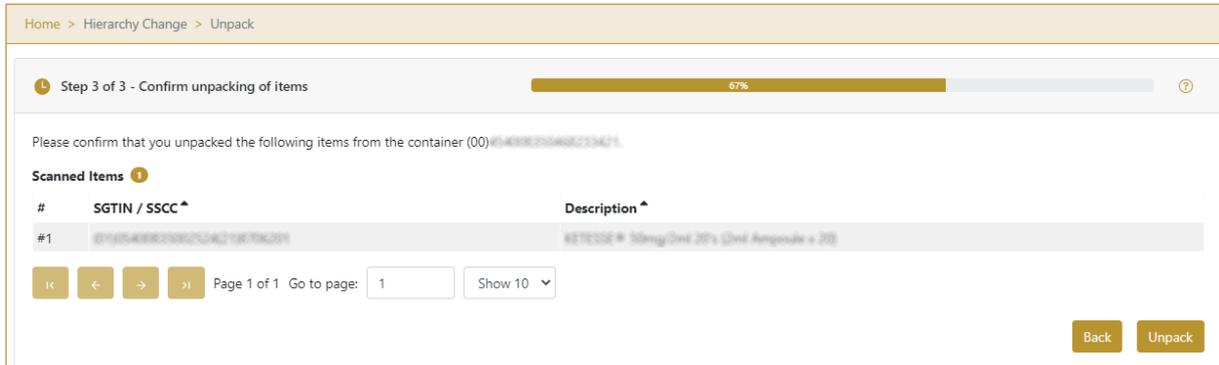


Figure 54 Unpack Confirmation

The number of items (SSCC, SGTINs) contained in the unpacking list is shown as **Scanned items 1**

To return to the previous page for changing the item press **Back**

A warning prompt will appear if any other pages are selected before this information is confirmed.

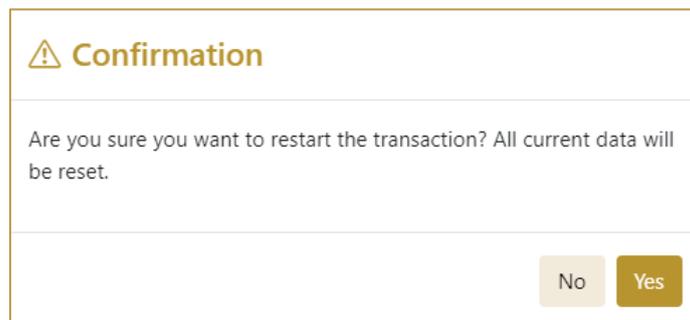


Figure 55 Unpack Warning

For final confirmation of the unpacking, when child items will be disaggregated/subtracted from a parent item press **Unpack**

4.2.1.4 Unpack completed

You successfully disaggregated/subtracted/removed child items from a parent item.

If you want to unpack new child items from a different parent item, press Unpack

another item **Unpack another item**

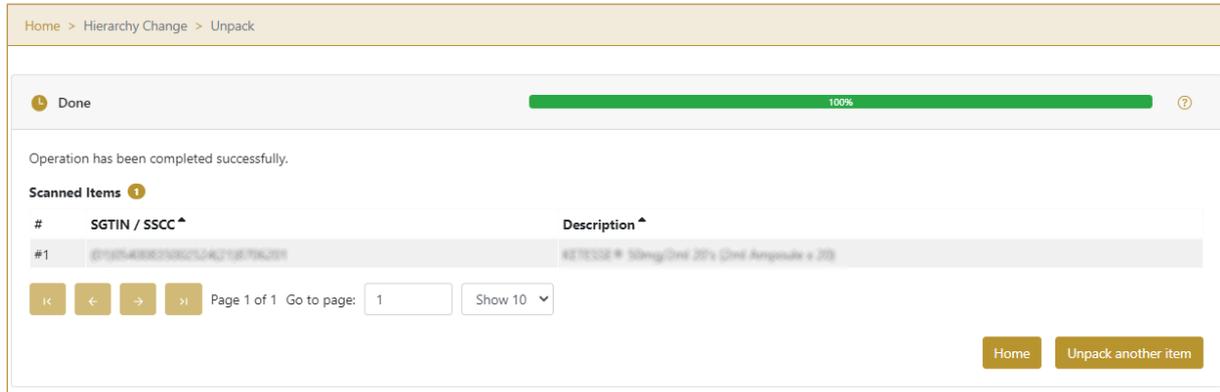


Figure 56 Unpack completed

4.2.1.5 Historical view

On the Historical view, past unpack operations performed by the user are displayed according to default filter settings.

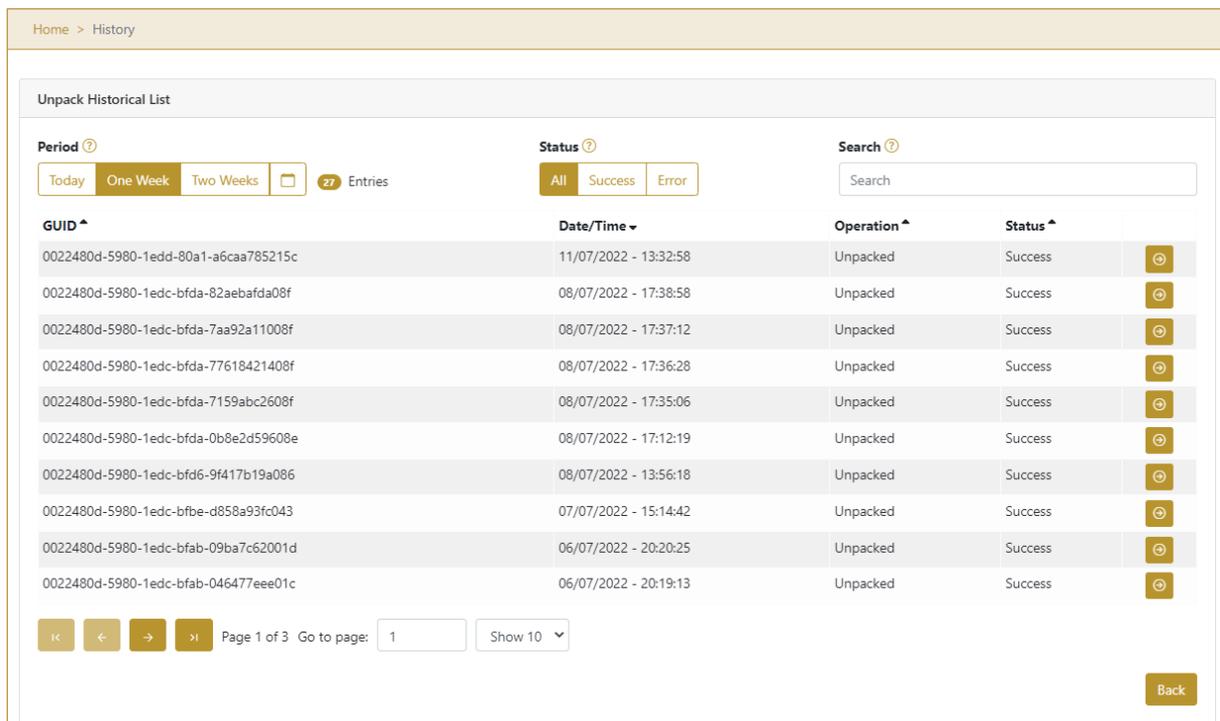


Figure 57 Historical view

To continue to the next page press Details  in the last column

If you want to return to the first page of the packing press Back 

4.2.1.5.1 Filter options

Filters can be used to help you find a specific initiation or initiation cancellation.

If you need to search by any string, start by entering desired string and the results will be automatically filtered and displayed in the table below.



Figure 58 Filter options - Search

Right from each column name, you will find  To sort data in a table ascending or descending, click once or twice on the arrow or the field name.



Figure 59 Sort

If you search for an item for a specific time frame, then using these options



Figure 60 Filter options – Time frame

Filters:

Today – all items processed on the last day are displayed

One week – all items from the last week are displayed

Two weeks – all items from the last two weeks are displayed

Calendar – all items for the selected period are displayed

For a longer period select calendar.

Use arrows and a dropdown menu  **March**  **2022**   to select month and year. Press on a day number to select the start time. Repeat the process to select the end time.

When you select the date, items are displayed automatically in the table below.

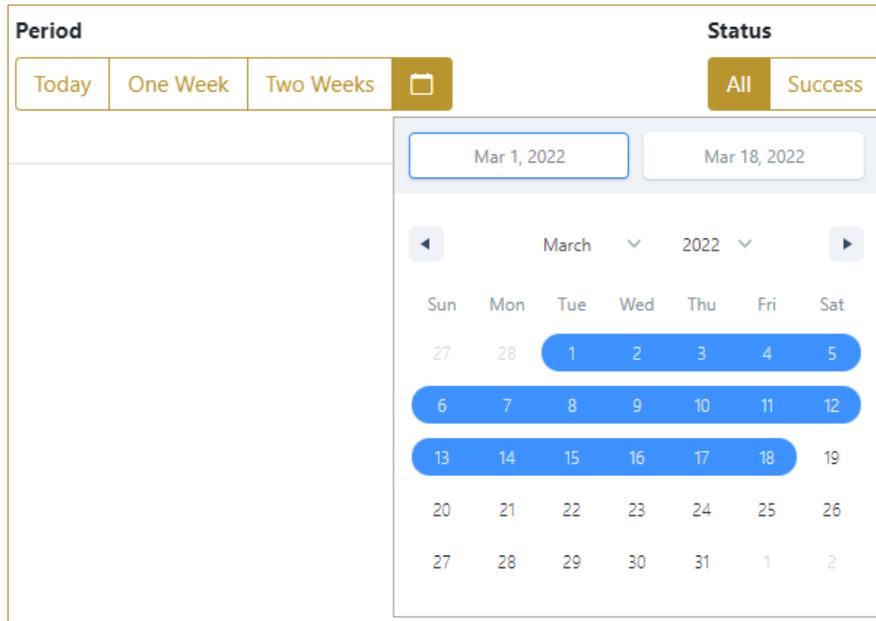


Figure 61 Filter options – Calendar

If you are interested in a specific status press one of the status options.



Figure 62 Filter options – Status

Filters:

All – all items regardless of the status are displayed

Success – only successfully processed items by Tatmeen are displayed

Error – only items that were unsuccessfully processed/failed are displayed

4.2.1.6 Historical view Details

On this page, you can see details for the selected item from the previous page.

4.2.2 Hierarchy Change – Unpack - Mobile

To unpack items, in the navigation menu select Hierarchy Change → Unpack.

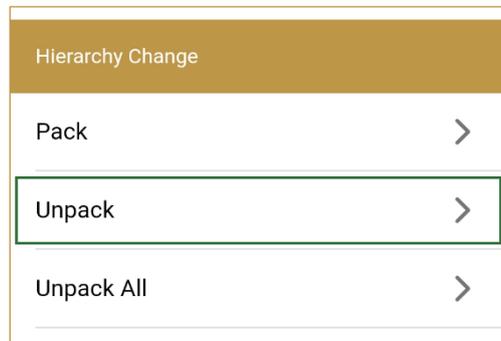


Figure 64 Mobile navigation menu - Unpack

For the unpacking process you will need 3 steps:

- Step 1 – Select a parent item
- Step 2 – Select child items
- Step 3 – Unpacking confirmation

4.2.2.1 Add parent unit

On this page, you add the SSCC parent item from which child items will be disaggregated/subtracted. You cannot unpack one item out of SGTIN parent, only all items can be unpacked in such scenario so Unpack All function is needed.

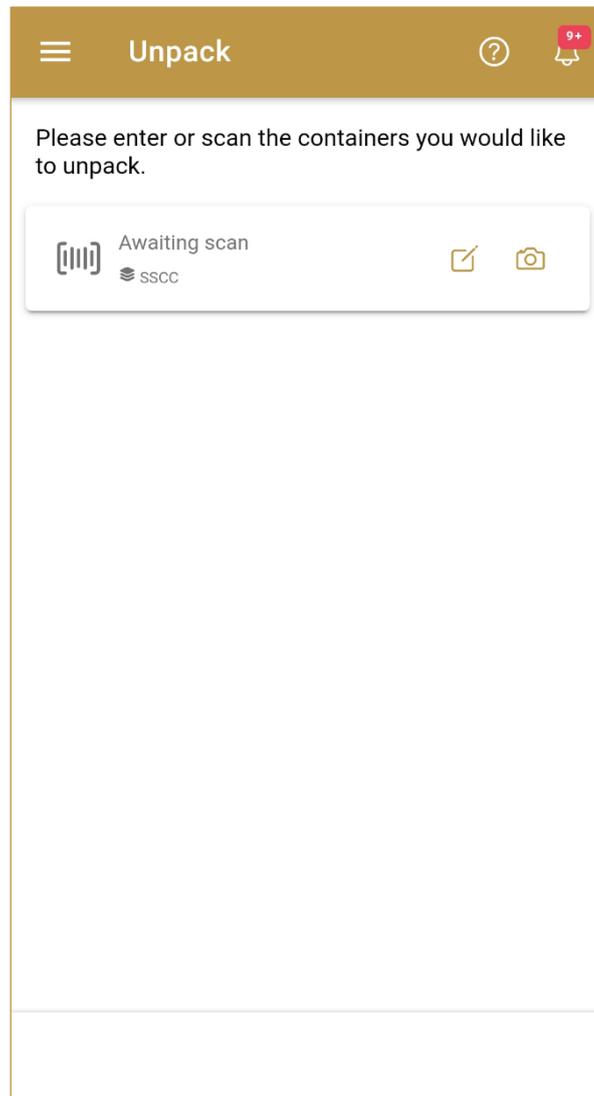


Figure 65 Add Parent unit

4.2.2.1.1 Adding parent item with scanning

When the first page opens, the application is already ready to scan the barcode with a scanner.

Or press Camera  to use the camera for scanning.

If there are no issues with entered data, you will progress straight through to the confirmation page.

4.2.2.1.2 Adding SSCC manually

Item can be added also manually. For manual data entry press Edit  where the new page opens.

SSCC = (00)SSCC

Serial Shipping Container Code

To add an SSCC parent item, enter the SSCC value in the field SSCC-(00) and press

OK 

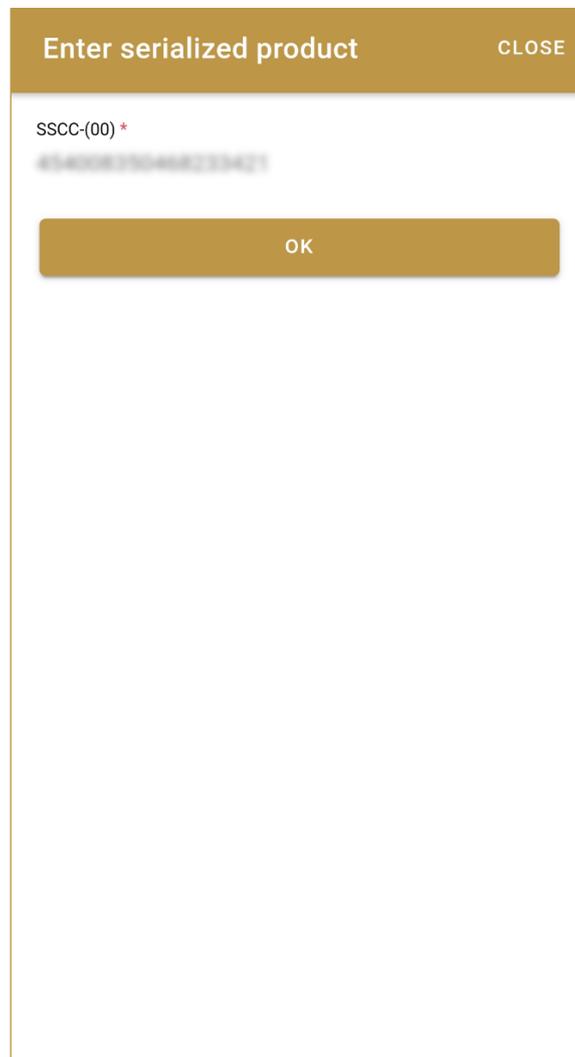
A screenshot of a mobile application dialog box titled "Enter serialized product" with a "CLOSE" button in the top right corner. The dialog contains a text input field labeled "SSCC-(00) *" with a red asterisk indicating it is required. The field contains a blurred alphanumeric string. Below the input field is a large, solid brown "OK" button.

Figure 66 Manual adding of SSCC parent item

If no value is entered, OK  will be disabled and it will not be possible to continue to the next page.

If you want to return to the previous page press Close 

If there are no issues with entered SSCC data, you will progress straight through to the next page.

If there are any issues with entered SSCC data, an error is shown why entered SSCC code cannot be used. Continuation to the next page is not possible until the error is corrected.

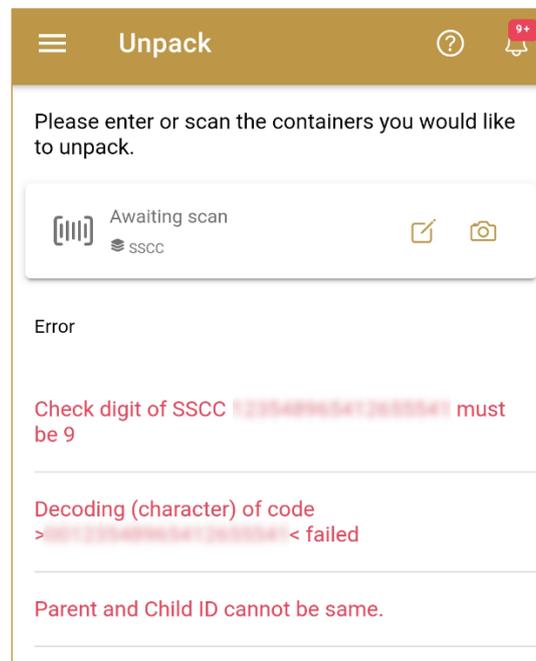


Figure 67 Unsuccessfully added SSCC item

4.2.2.2 Adding items to unpack

On this page, you add one or more child items that need to be unpacked.

Items must be defined as:

- SSCC or
- SGTIN

Items can be added manually by entering values or by scanning with a scanner. To continue to the next page at least one SSCC or SGTIN item must be added.

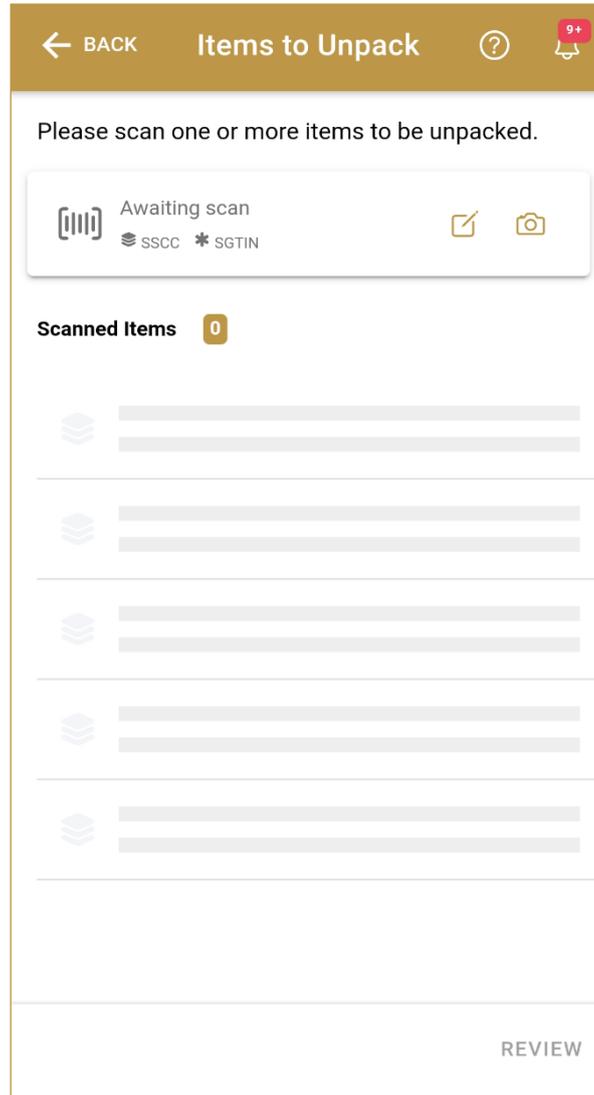


Figure 68 Unpack Adding items

4.2.2.2.1 Adding items with scanning

When the first page opens, the application is already ready to scan the barcode with a scanner or press Camera  to use the camera for scanning.

4.2.2.2.2 Adding SSCC manually

Item can be added also manually. For manual data entry press Edit  where the new page opens.

SSCC = (00)SSCC

Serial Shipping Container Code

To add an SSCC Item to the unpacking list, enter the SSCC value in the field SSCC-(00) and press OK 

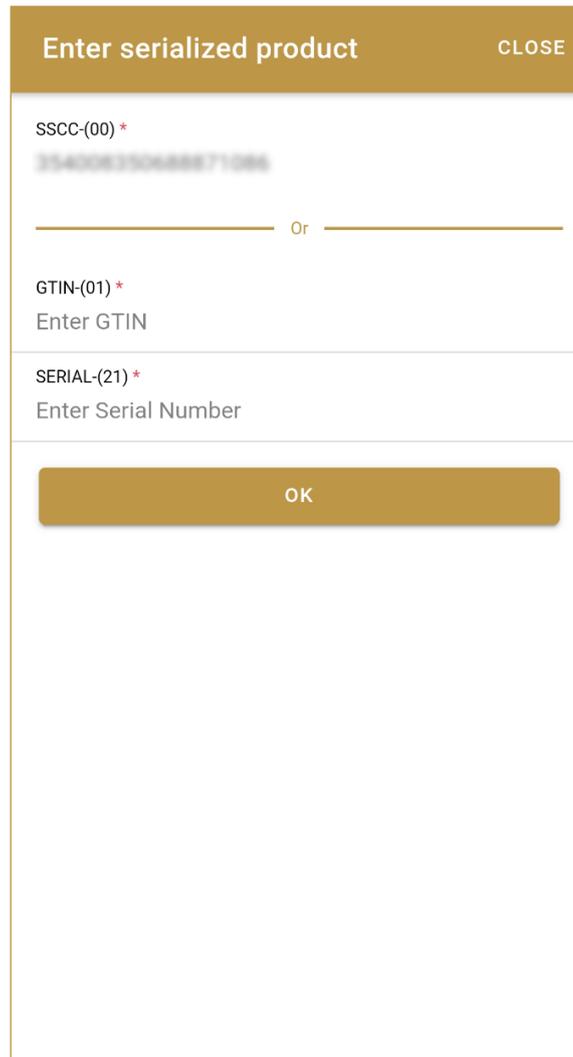
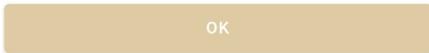
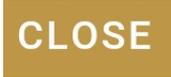
A screenshot of a mobile application dialog box titled "Enter serialized product" with a "CLOSE" button in the top right corner. The dialog contains three input fields: "SSCC-(00) *" with a sample value "35400835088871086", "GTIN-(01) *" with the placeholder "Enter GTIN", and "SERIAL-(21) *" with the placeholder "Enter Serial Number". Below the fields is a large "OK" button.

Figure 69 Manual adding of SSCC item

If no value is entered, OK  will be disabled and it will not be possible to continue to the next page.

If you want to return to the previous page and cancel the entry press Close 

If you press OK, the SSCC Item is then added to the unpacking list and has an icon 

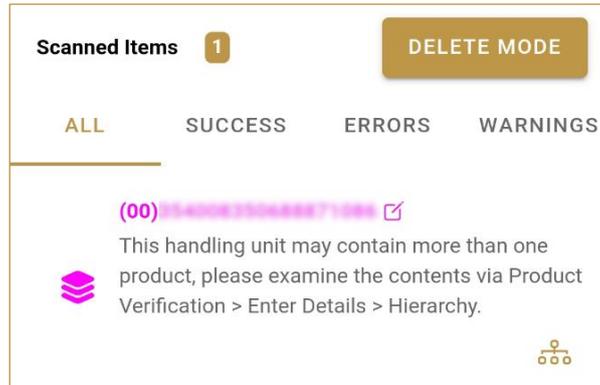


Figure 70 Successfully added SSCC item

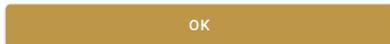
4.2.2.2.3 Adding SGTIN manually

Item can be added also manually. For manual data entry press Edit  where the new page opens.

SGTIN = (01)GTIN(21)SERIAL

Global Trade Item Number

To add an SGTIN Item to the unpacking list, enter the GTIN value of the product in the field GTIN-(01), and the serial number value in the field SERIAL-(21) and press OK



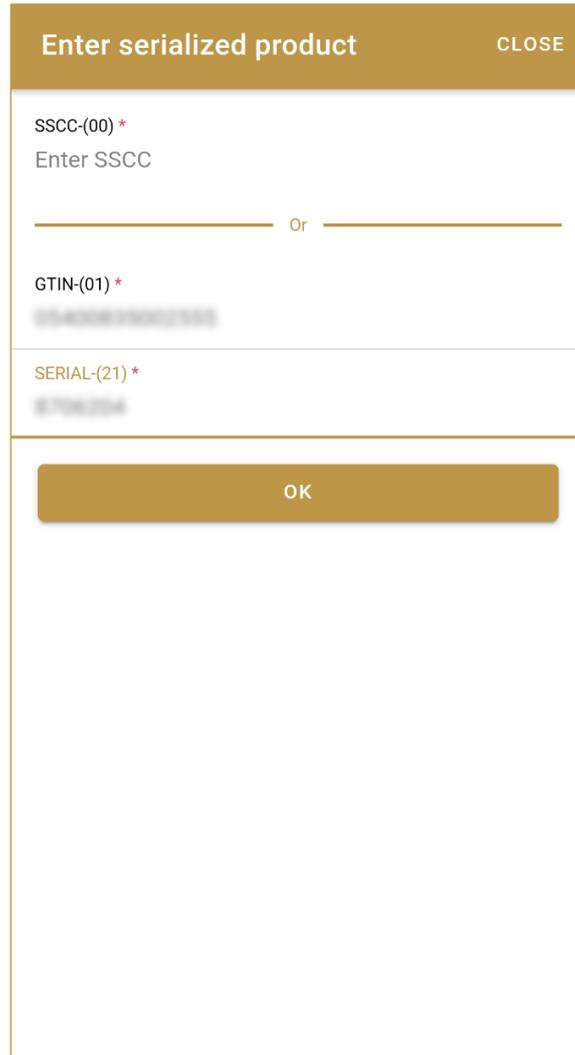
A screenshot of a mobile application dialog box titled "Enter serialized product" with a "CLOSE" button in the top right corner. The dialog contains three input fields: "SSCC-(00) *" with the placeholder "Enter SSCC", "GTIN-(01) *" with a blurred placeholder, and "SERIAL-(21) *" with a blurred placeholder. Below the input fields is a large "OK" button.

Figure 71 Manual adding of SGTIN item

If no value is entered, OK  will be disabled and it will not be possible to continue to the next page.

If you want to return to the previous page and cancel the entry press Close 

If you press OK, the SGTIN Item is then added to the unpacking list and has an icon 



Figure 72 Successfully added SGTIN item

4.2.2.2.4 Review of the added items

When an item is added to the list, you can review all items, check for possible issues, and remove unneeded items.

Scanned Items 1 shows the total of all items on the list

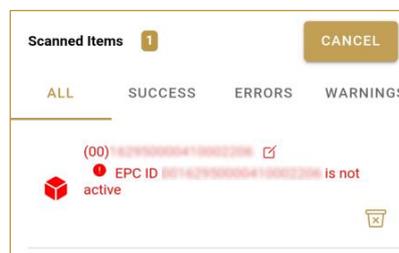
It is possible to filter the list of scanned items using ALL SUCCESS ERRORS WARNINGS

Filter options:

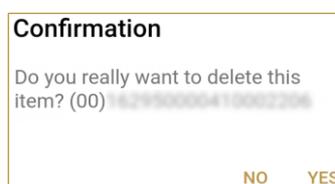
- **All** - shows all items
- **Success** - filter to only successfully added items
- **Errors** - filter to items with error
- **Warnings** - filter to items with a warning

Select Delete mode to remove added items. DELETE MODE

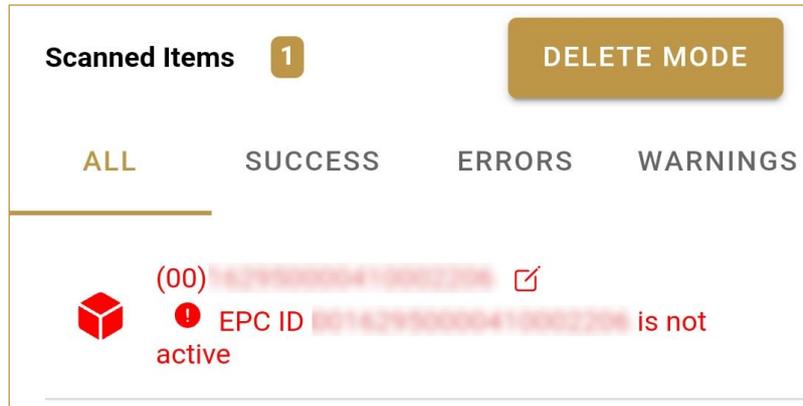
In Delete mode, a delete icon will appear on each row.



Press Delete  to remove an item. Deletion will require confirmation.



Red messages under items provide guidance for issues with listed items.



When all issues with added items are solved and there is no error message, press

Review **REVIEW** to proceed to the next page.

To return to previous page press Back **← BACK**

4.2.2.3 Unpacking Confirmation

This page confirms that the packing list contains all the items which need to be included in the parent SSCC.

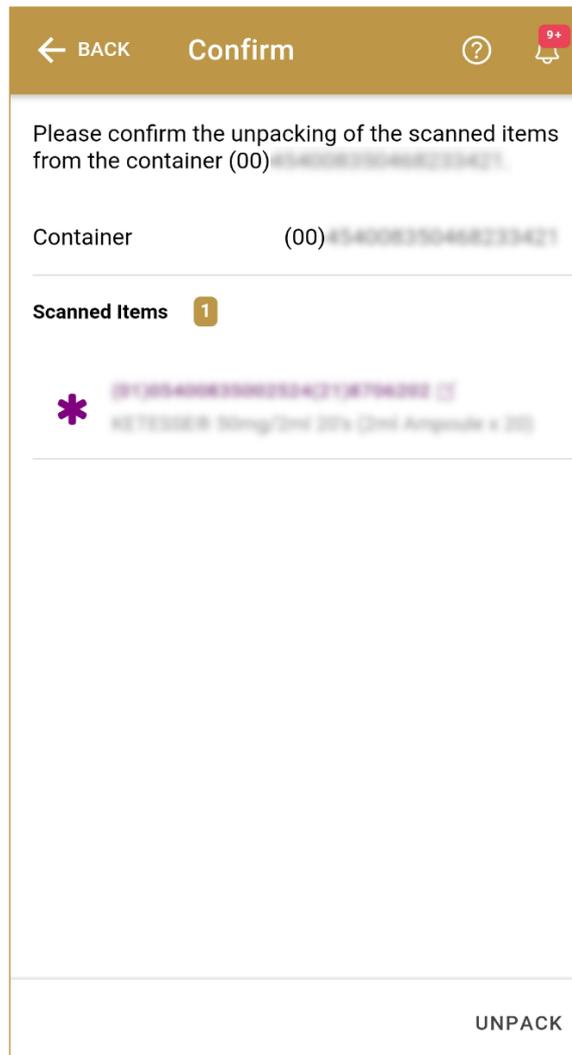


Figure 73 Unpack Confirmation

The number of items (SSCC, SGTINs) prepared for unpacking is shown as **Scanned Items 1**

To return to the previous page for changing the child items press Back



For final confirmation for unpacking, where the child items will be disaggregated/subtracted from a parent item press Unpack **UNPACK**

4.2.2.4 Unpack completed

You successfully disaggregated/subtracted/removed child items from a parent item.

If you want to unpack new child items from a different parent item, press Unpack

Another Item **UNPACK ANOTHER ITEM**

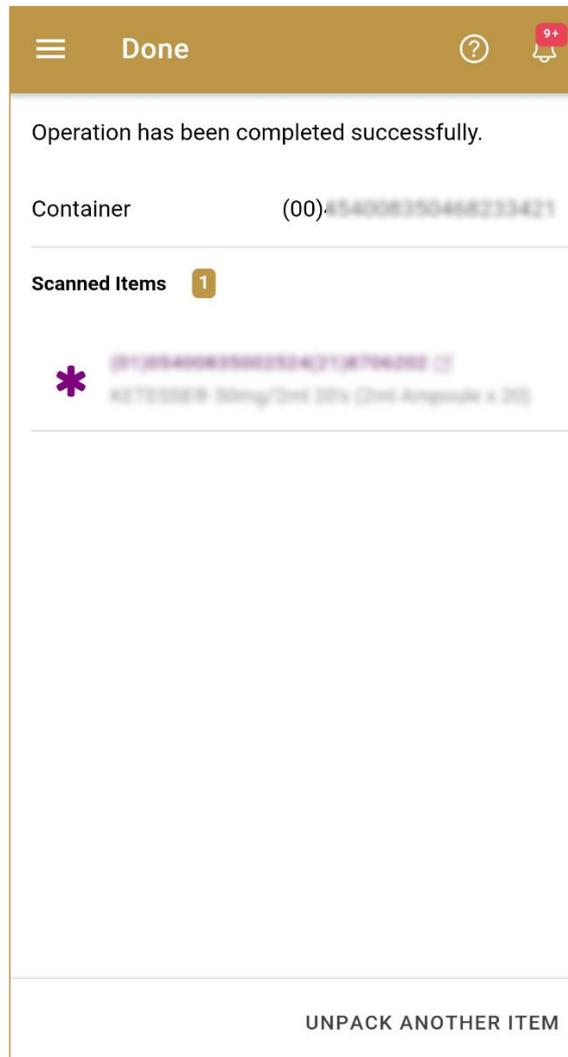


Figure 74 Unpack completed

4.3 Hierarchy Change – Unpack All

Unpack All is the update to the product hierarchy where all child units from the parent unit are disaggregated/subtracted.

After this update, the parent unit will no longer have any child items and will be automatically decommissioned. The child items remain unchanged, except they no longer have a parent unit.

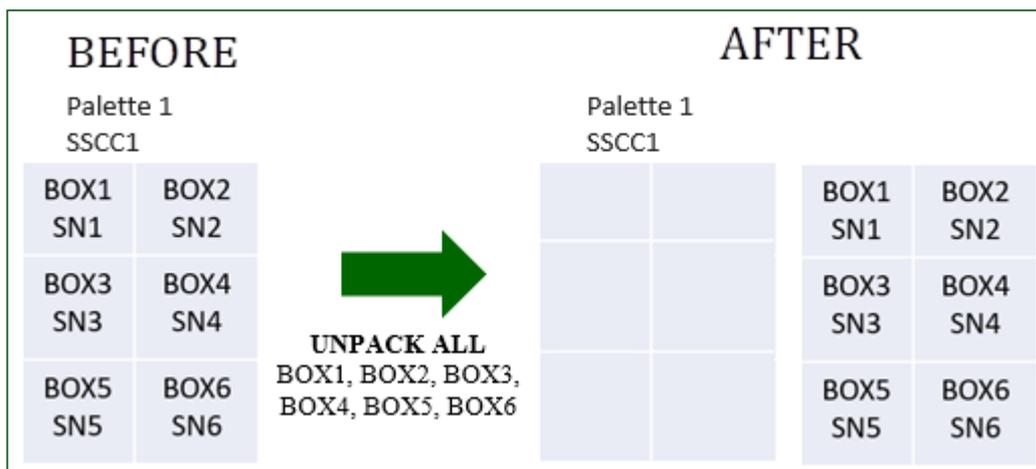


Figure 75 Unpack All items

4.3.1 Hierarchy Change – Unpack All - Portal

To unpack all from the parent item, in the navigation menu select Hierarchy Change → Unpack All.

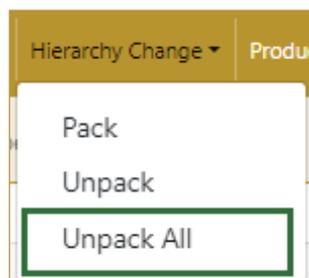


Figure 76 Portal navigation menu – Unpack All

Main data needed for unpacking:

- Unique Serialized Number (SGTIN or SSCC) of a parent item

The unpacking process has two steps:

- Step 1 – Select a parent item
- Step 2 – Unpacking confirmation

4.3.1.1 Adding items to unpack

On this page, you select one or more parent items from which child items will be disaggregated.

Items can be:

- SSCC or
- SGTIN

Items can be added manually by entering values or by scanning with a scanner. To continue to the next page at least one SSCC or SGTIN item must be added.

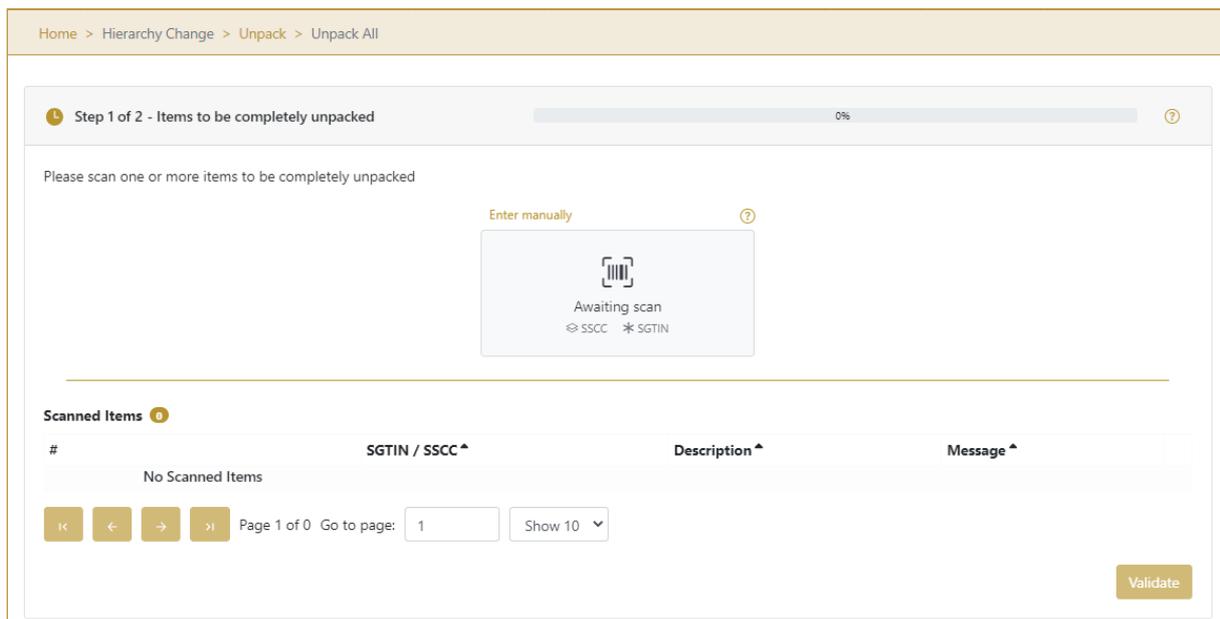


Figure 77 Unpack All Adding items

If you press Clock  a new page opens for the Historical view where all unpacking documents are displayed (see section 4.3.1.4).

4.3.1.1.1 Adding items with scanning

When the first page opens and once the focus is on the application, the application is ready to scan the barcode with a scanner, and a scanned item will be added.

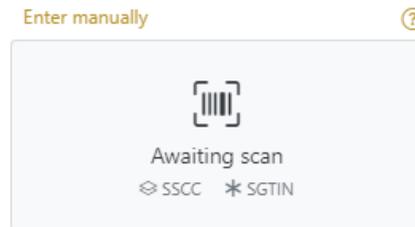


Figure 78 Unpack - Scan item

If the application doesn't have focus, scanning is not possible. First, add the focus to the application so scanning will be possible.

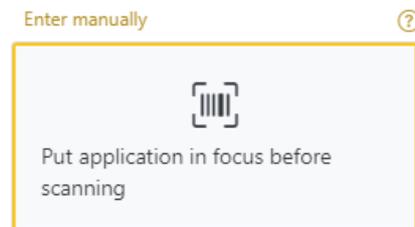


Figure 79 Unpack - Missing focus

4.3.1.1.2 Adding SSCC manually

Item can be added also manually. For manual data entry press Enter manually **Enter manually** where a new page opens.

SSCC = (00)SSCC

Serial Shipping Container Code

To add an SSCC Item to the unpacking list, enter the SSCC value in the field SSCC-

(00) and press OK



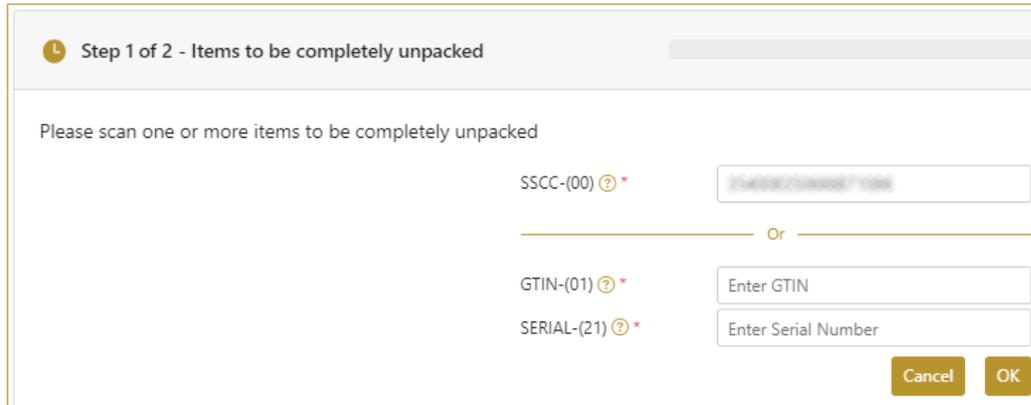


Figure 80 Manual adding of SSCC item

If you want to return to the previous page press  Cancel

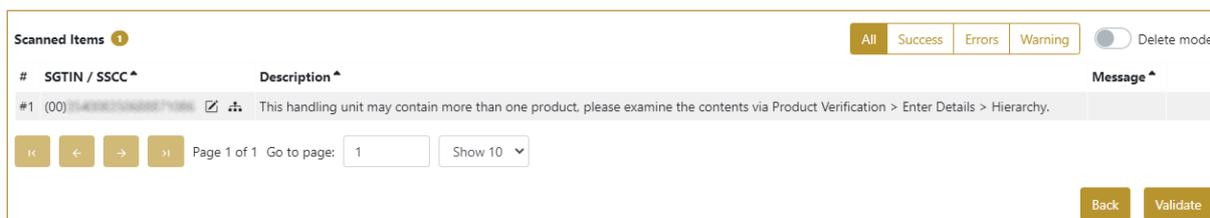


Figure 81 Successfully added SSCC item

4.3.1.1.3 Adding SGTIN manually

Item can be added also manually. For manual data entry press Enter manually **Enter manually** where a new page opens.

SGTIN = (01)GTIN(21)SERIAL

Global Trade Item Number

To add an SGTIN Item to the unpacking list, enter the GTIN value of the product in the field GTIN-(01), and the serial number value in the field SERIAL-(21) and press OK



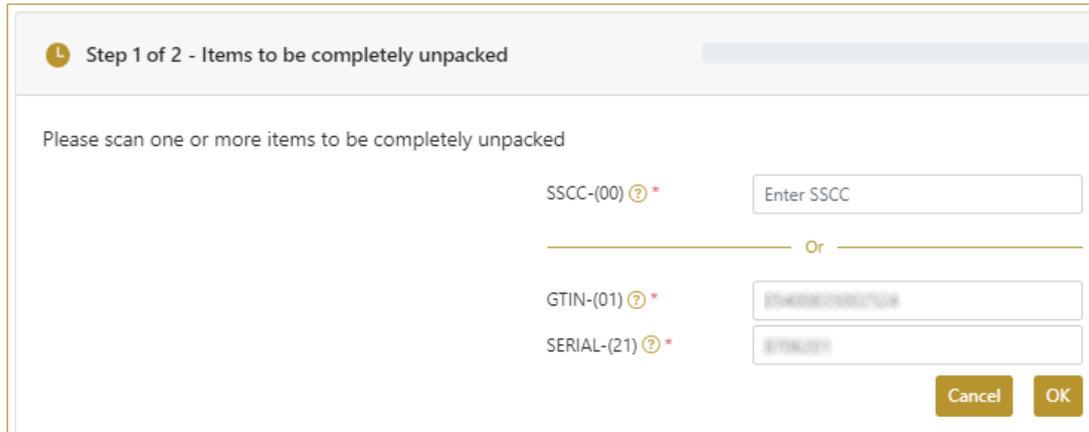


Figure 82 Manual adding of SGTIN item

If you want to return to the previous page press Cancel

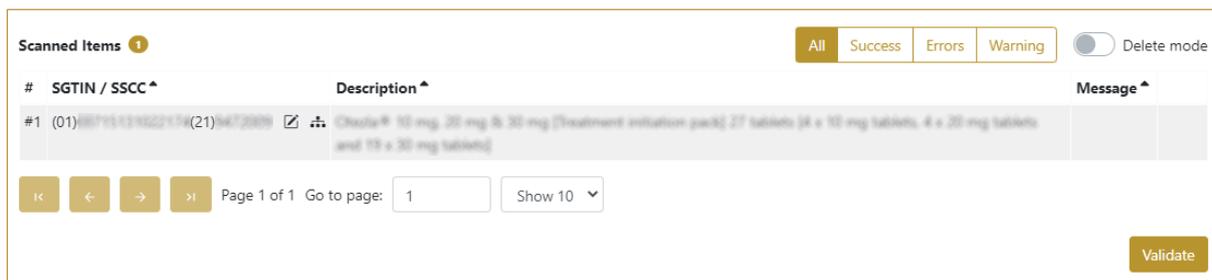
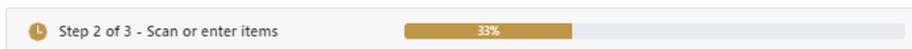



Figure 83 Successfully added SGTIN item

4.3.1.1.4 Review of the added items

When an item is added to the list, you can review all items, check for possible issues, and remove unneeded items.

The progress bar shows advancement through the process



Scanned items 2 shows the total of all items on the list

It is possible to filter the list of scanned items using



Filter options:

- **All** - shows all items
- **Success** - filter to only successfully added items
- **Errors** - filter to items with error

- **Warning** - filter to items with a warning

Select Delete mode to remove added items.  Delete mode

In Delete mode, a delete icon will appear on each row.

Press Delete  to remove an item. Deletion will require confirmation.

 **Confirmation**

Do you really want to delete this item? (00) 125478965432158743

The Message column on this page provides guidance for issues with listed items.

Scanned Items 2		All Success Errors Warning <input type="checkbox"/> Delete mode	
#	SGTIN / SSCC ^	Description ^	Message ^
#1	(01) 80715131922111 (21) 472809	Chocla® 10 mg, 20 mg & 30 mg (Treatment initiation pack) 27 tablets (4 x 10 mg tablets, 4 x 20 mg tablets and 19 x 30 mg tablets)	
#2	(00) 807151319249142515		GLN of EPC (80487151319249142515) doesn't match readpoint GLN

Page 1 of 1 Go to page: Show 10 ▼

To return to the previous page press Back 

When all issues with added items are solved and there is no error message, press

Validate  to re-check all added items again and to proceed to the next page.

4.3.1.2 Unpacking All Confirmation

Before confirmation, check if the unpacking list contains all parent items from which the child items need to be disaggregated/subtracted.

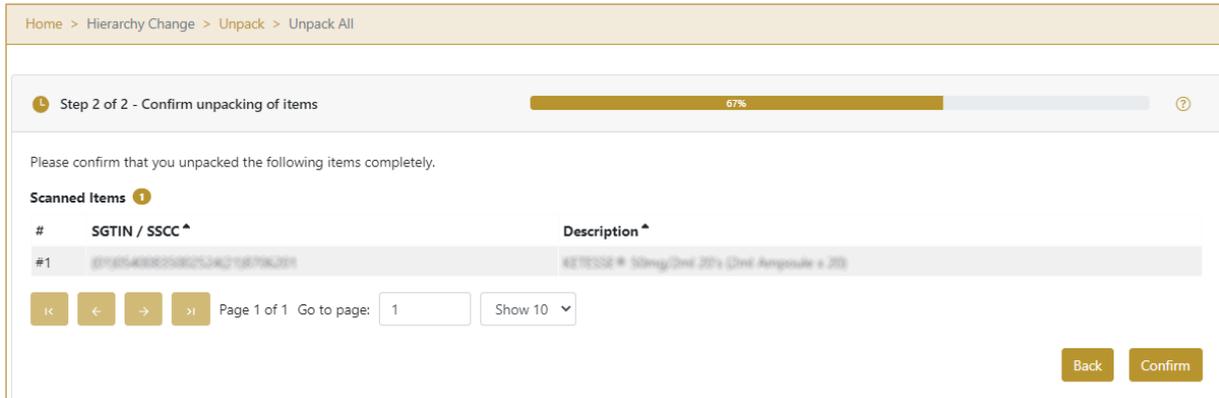


Figure 84 Unpack All Confirmation

The number of items (SSCC, SGTINs) contained in the unpacking list is shown as **Scanned items 1**

To return to the previous page for changing the items press **Back**

A warning prompt will appear if any other pages are selected before this information is confirmed.

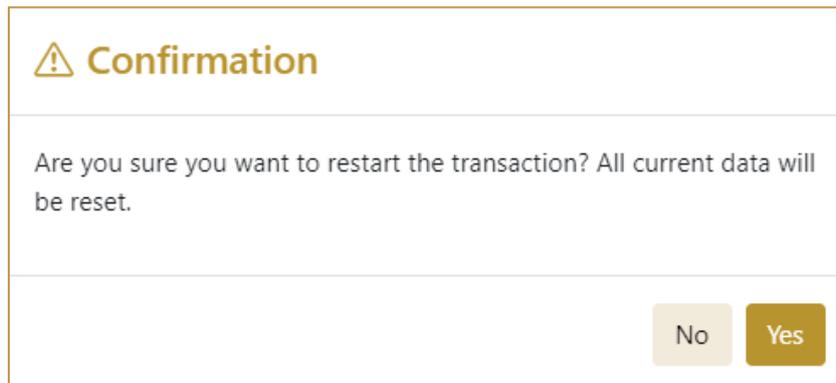


Figure 85 Unpack All Warning

For final confirmation for unpacking, where child items will be disaggregated/subtracted from a parent item press **Confirm**

4.3.1.3 Unpack All completed

You have successfully disaggregated/subtracted/removed child items from parent items.

If you want to unpack new child items from a different parent item, press Unpack another item

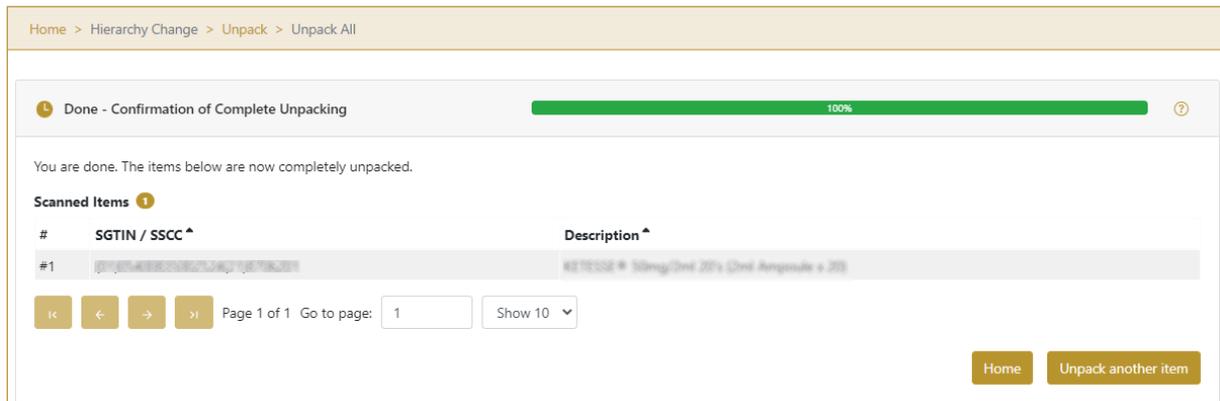


Figure 86 Unpack All completed

4.3.1.4 Historical view

On the Historical view, past unpacking operations performed by the user are displayed according to default filter settings.

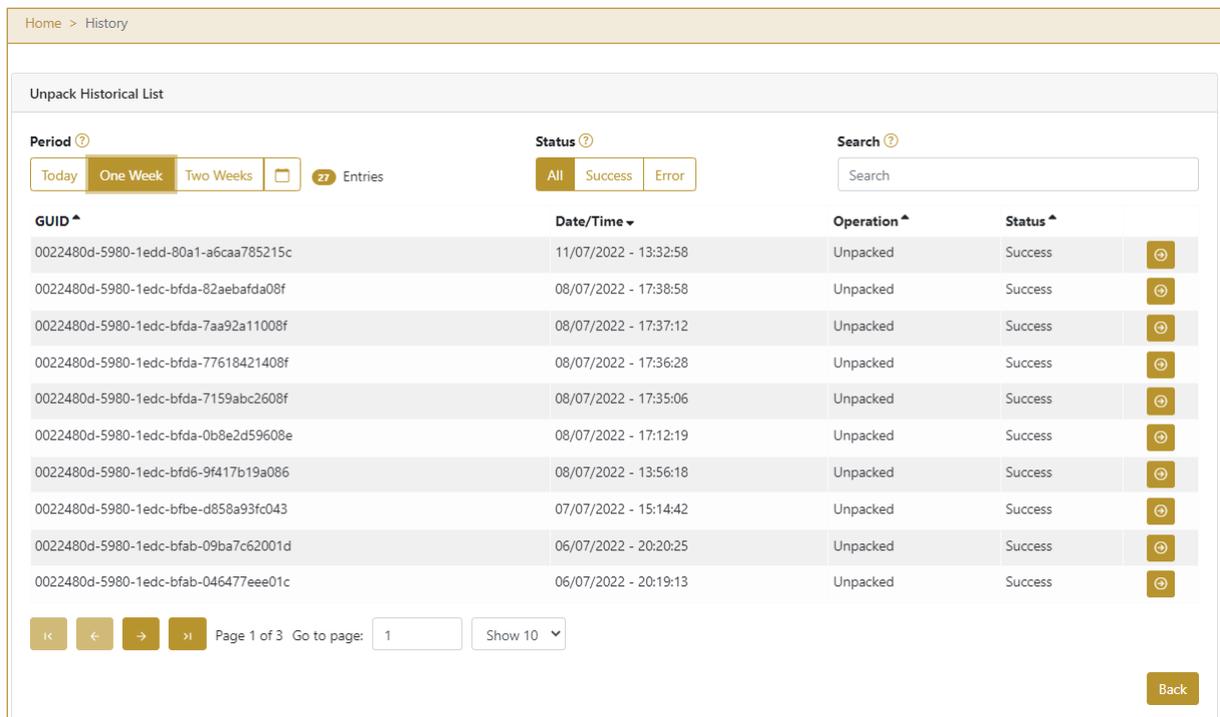


Figure 87 Historical view

To continue to the next page press Details  in the last column

If you want to return to the first page of the packing press Back



4.3.1.4.1 Filter options

Filters can be used to help you find a specific initiation or initiation cancellation.

If you need to search by any string, start by entering desired string and the results will be automatically filtered and displayed in the table below.



Figure 88 Filter options - Search

Right from each column name, you will find  To sort data in a table ascending or descending, click once or twice on the arrow or the field name.



Figure 89 Sort

If you search for an item for a specific time frame, then using these options



Figure 90 Filter options – Time frame

Filters:

Today – all items processed on the last day are displayed

One week – all items from the last week are displayed

Two weeks – all items from the last two weeks are displayed

Calendar – all items for the selected period are displayed

For a longer period select calendar.

Use arrows and a dropdown menu  **March**  **2022**  to select month and year. Press on a day number to select the start time. Repeat the process to select the end time.

When you select the date, items are displayed automatically in the table below.

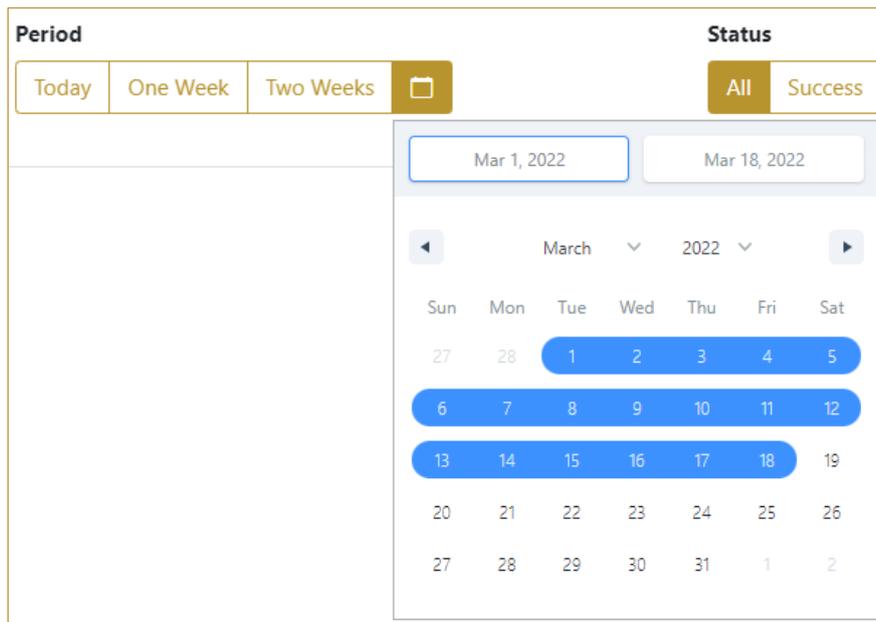


Figure 91 Filter options – Calendar

If you are interested in a specific status press one of the status options.



Figure 92 Filter options – Status

Filters:

All – all items regardless of the status are displayed

Success – only successfully processed items by Tatmeen are displayed

Error – only items that were unsuccessfully processed/failed are displayed

4.3.2 Hierarchy Change – Unpack All - Mobile

To unpack all from the parent item, in the mobile navigation menu select Hierarchy Change → Unpack All.

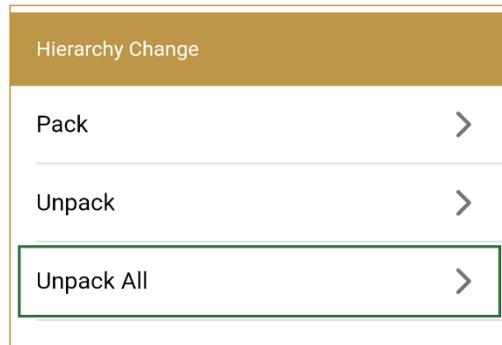


Figure 94 Mobile navigation menu – Unpack All

Main data needed for unpacking:

- Unique Serialized Number (SGTIN or SSCC) of a parent item

The unpacking process has two steps:

- Step 1 – Select a parent item
- Step 2 – Unpacking confirmation

4.3.2.1 Adding items to unpack

On this page, you select one or more parent items from which child items will be disaggregated.

Items can be:

- SSCC or
- SGTIN

Items can be added manually by entering values or by scanning with a scanner. To continue to the next page at least one SSCC or SGTIN item must be added.

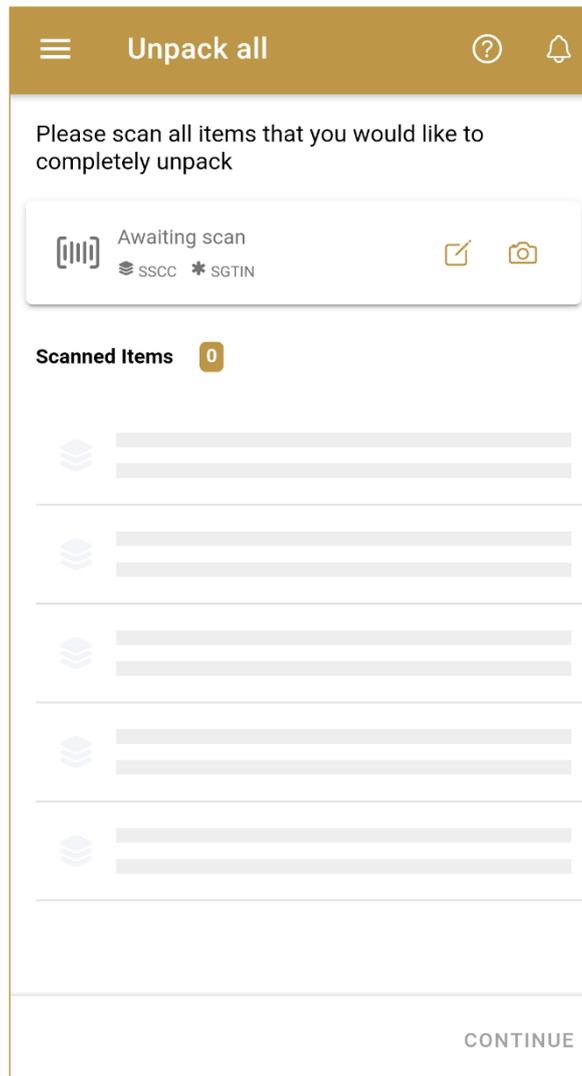


Figure 95 Unpack All Adding items

4.3.2.1.1 Adding items with scanning

When the first page opens, the application is already ready to scan the barcode with a scanner.

Or press Camera  to use the camera for scanning.

If there are no issues with entered data, you will progress straight through to the confirmation page.

4.3.2.1.2 Adding SSCC manually

Item can be added also manually. For manual data entry press Edit  where the new page opens.

SSCC = (00)SSCC

Serial Shipping Container Code

To add an SSCC Item to the unpacking list, enter the SSCC value in the field SSCC-(00) and press OK 

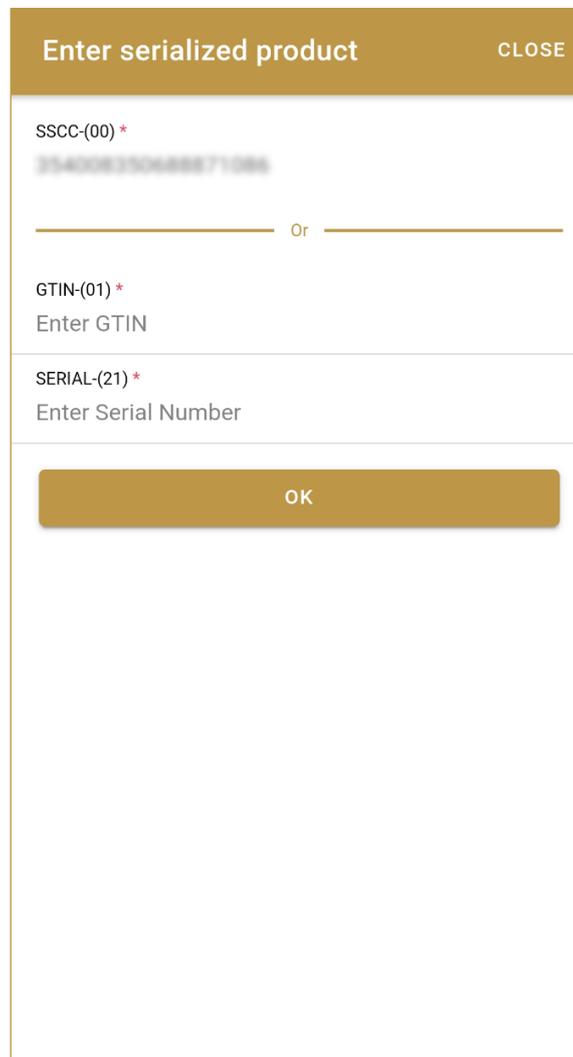
A screenshot of a mobile application dialog box titled "Enter serialized product" with a "CLOSE" button in the top right corner. The dialog contains three input fields: "SSCC-(00) *" with a blurred value "33400833068871086", "GTIN-(01) *" with the placeholder "Enter GTIN", and "SERIAL-(21) *" with the placeholder "Enter Serial Number". Below these fields is a large "OK" button.

Figure 96 Manual adding of SSCC item

CLOSE

If you want to return to the previous page press Close

If you press OK, the SSCC Item is then added to the unpacking list and has an icon

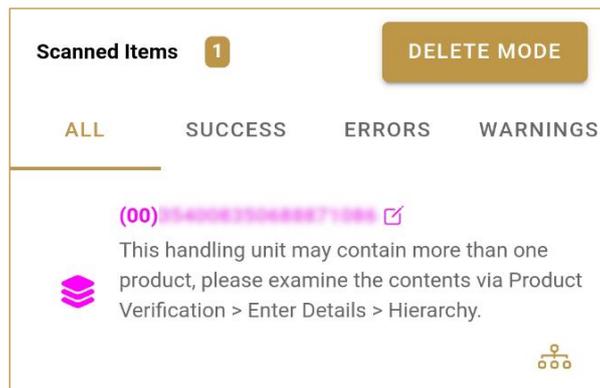


Figure 97 Successfully added SSCC item

4.3.2.1.3 Adding SGTIN manually

Item can be added also manually. For manual data entry press Edit



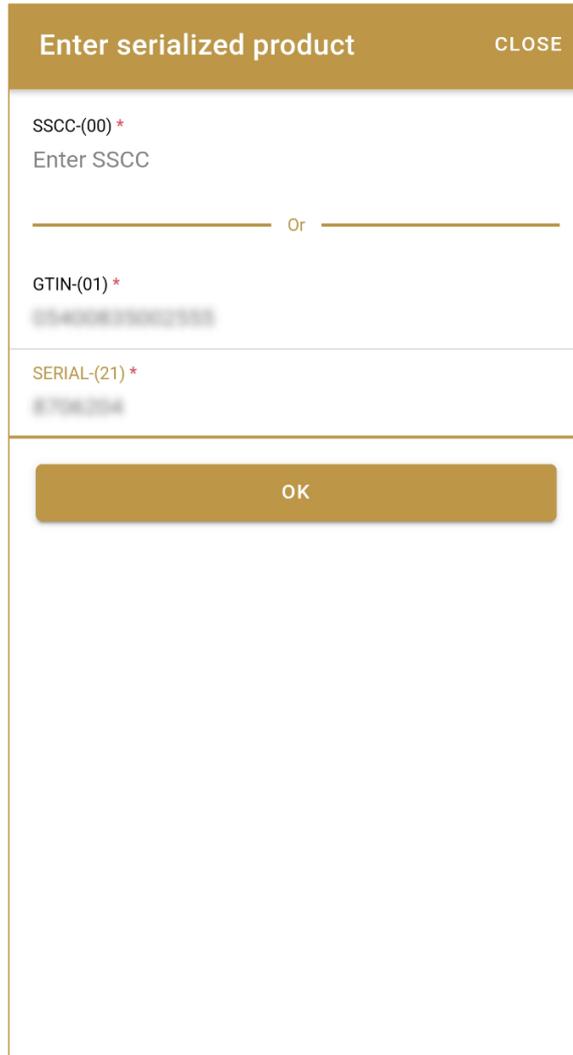
where the new page opens.

SGTIN = (01)GTIN(21)SERIAL

Global Trade Item Number

To add an SGTIN Item to the unpacking list, enter the GTIN value of the product in the field GTIN-(01), and the serial number value in the field SERIAL-(21) and press OK

OK

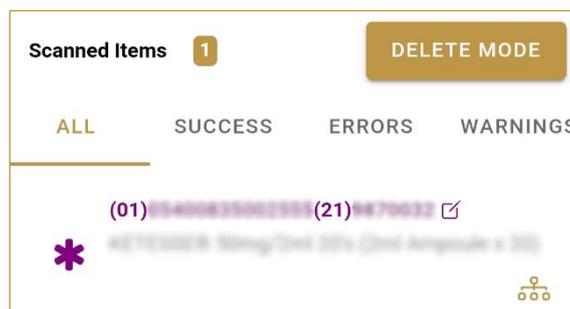


The screenshot shows a dialog box titled "Enter serialized product" with a "CLOSE" button in the top right corner. The dialog contains three input fields: "SSCC-(00) *" with the placeholder "Enter SSCC", "GTIN-(01) *" with a blurred value, and "SERIAL-(21) *" with a blurred value. Below the input fields is a large "OK" button.

Figure 98 Manual adding of SGTIN item

If you want to return to the previous page press Close 

If you press OK, the SGTIN Item is then added to the unpacking list and has an icon 



The screenshot shows a "Scanned Items" list with a "1" in a brown box and a "DELETE MODE" button. Below the button are four tabs: "ALL", "SUCCESS", "ERRORS", and "WARNINGS". The "ALL" tab is selected. The list contains one item: "(01) 05400835002555 (21) 9470032" with a purple asterisk icon to its left and a checkmark icon to its right. Below the item is a small icon of a scale.

Figure 99 Successfully added SGTIN item

4.3.2.1.4 Review of the added items

When an item is added to the list, you can review all items, check for possible issues, and remove unneeded items.

Scanned Items **1** shows the total of all items on the list

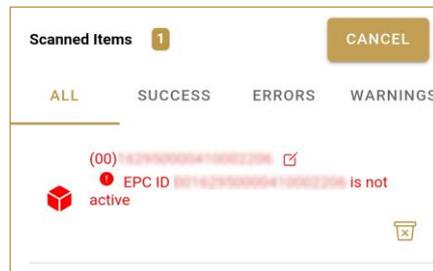
It is possible to filter the list of scanned items using ALL SUCCESS ERRORS WARNINGS

Filter options:

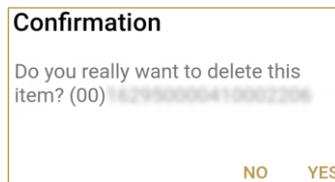
- **All** - shows all items
- **Success** - filter to only successfully added items
- **Errors** - filter to items with error
- **Warnings** - filter to items with a warning

Select Delete mode to remove added items. DELETE MODE

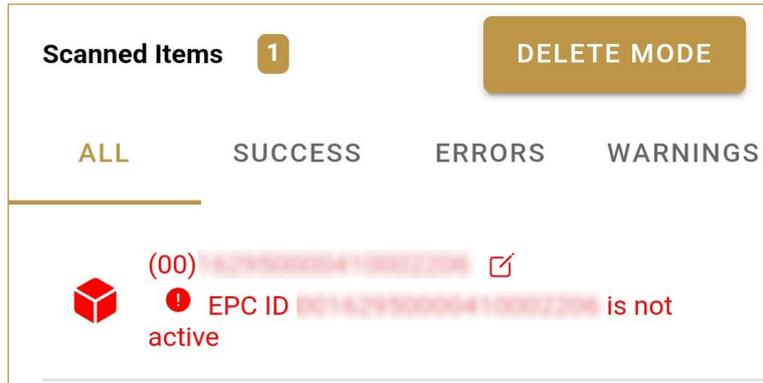
In Delete mode, a delete icon will appear on each row.



Press Delete  to remove an item. Deletion will require confirmation.



Red messages under items provide guidance for issues with listed items.



When all issues with added items are solved and there is no error message, press Continue **CONTINUE** to proceed to the next page.

4.3.2.2 Unpacking All Confirmation

Before confirmation, check if the unpacking list contains all parent items from which the child items need to be disaggregated/subtracted.

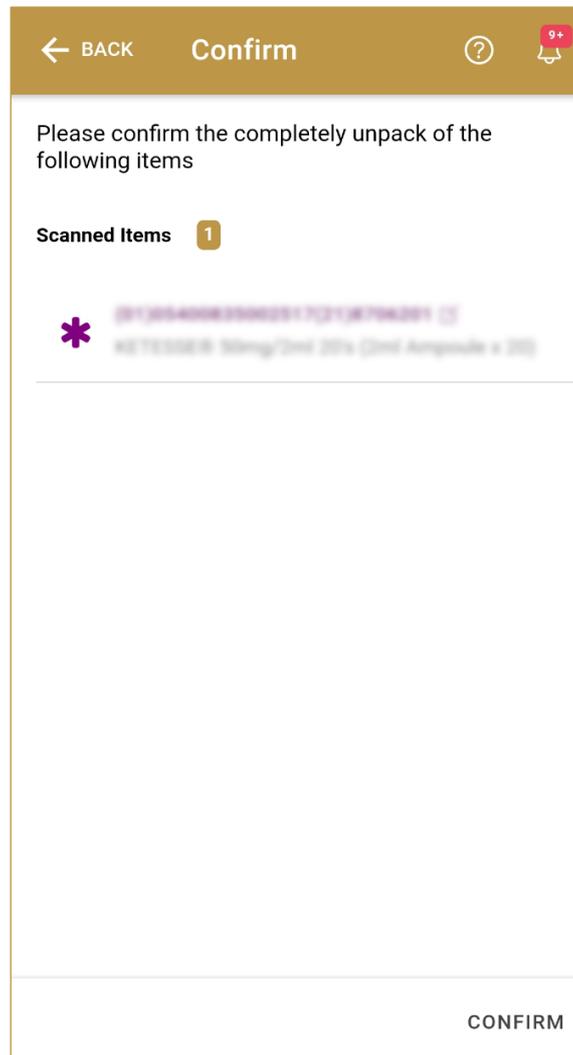


Figure 100 Unpack All Confirmation

The number of items (SSCC, SGTINs) contained in the unpacking list is shown as

Scanned Items **1**

To return to the previous page for changing the items press Back



For final confirmation for unpacking, where child items will be disaggregated/subtracted from a parent item press Confirm **CONFIRM**

4.3.2.3 Unpack All completed

You have successfully disaggregated/subtracted/removed child items from parent items.

If you want to unpack new child items from a different parent item, press Do Another
DO ANOTHER

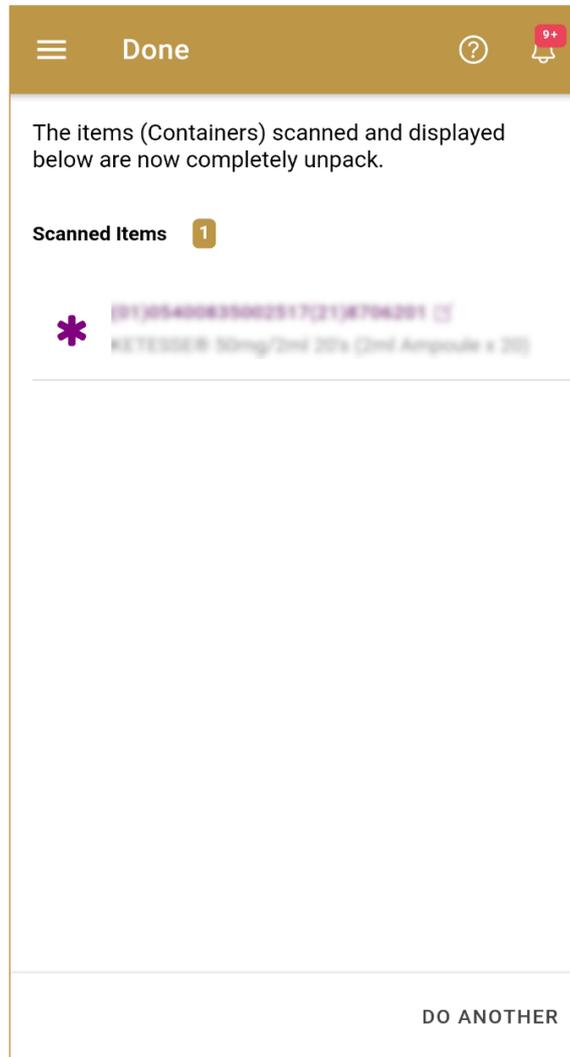


Figure 101 Unpack All completed

5. HOW – TO Hierarchy Change

5.1 HOW – TO Pack

5.1.1 How do I pack an item into a new parent item?

In the navigation menu select Mobile commissioning→SSCC Request and retrieve a new parent SSCC (if not available yet).

When new SSCC available, select Hierarchy Change→ Pack in the navigation menu select.

On the first page manually enter or scan all child items which need to be packed into a new parent item [4.1.1.1].

On the second page, manually enter or scan the new parent item SSCC code [4.1.1.2].

Check once again if added child items and the parent item are correct [4.1.1.3].

Confirm pack [4.1.1.3].

Note: you can only pack into new SSCC. Packing into SGTIN not possible.

5.1.2 How do I pack an item into an existing parent item which already contains child items?

In the navigation menu select Hierarchy Change→ Pack.

On the first page manually enter or scan all child items which need to be packed into a new parent item [4.1.1.1].

On the second page, manually enter or scan the existing parent item SSCC code [4.1.1.2].

Check once again if added child items and the parent item are correct [4.1.1.3].

Confirm pack [4.1.1.3].

Note: you can only pack into an existing SSCC. Packing into an existing SGTIN not possible.

5.1.3 How do I pack an item into SGTIN parent?

During logistics operations, it is not allowed to use a SGTIN as a parent, only a logistic units, which is marked with a SSCC. Packing a SGTIN into another SGTIN is only done during the commissioning step by the product owner (MAH, Licensed Agents etc.).

5.2 HOW – TO Unpack

5.2.1 How do I unpack an item or a few items from a SSCC parent item?

In the navigation menu select Hierarchy Change→ Unpack.

On the first page manually enter or scan one SSCC parent item from which child items need to be unpacked [4.2.1.1]. Using Unpack for unpaacking/extracting an item out of SGTIN parent is not allowed.

On the second page, manually enter or scan one or more child items that need to be unpacked [4.2.1.2].

Check once again if added child items and the parent item are correct [4.2.1.3].

Confirm unpack [4.2.1.3].

The parent SSCC can be (re)used for further usage even if the parent SSCC remains empty after unpack action.

5.2.2 How do I unpack a single item from a SGTIN parent item?

During logistic operations, unpacking single items from a SGTIN parent item is only allowed in the case all the children are being extracted. Due to this, unpacking where the the parent item is identified by a SGTIN is only allowed by using the Unpack All transaction.

5.3 HOW – TO Unpack All

5.3.1 How do I unpack all child items from a parent item?

In the navigation menu select Hierarchy Change→ Unpack All.

Manually enter or scan one or more parent items from which all child items need to be unpacked [4.3.1.1].

Check once again if added parent items are correct [4.3.1.2].

Confirm unpack all child items from the parent items [4.3.1.2].

6. FAQ – Hierarchy Change

6.1.1 What is the difference between Unpack and Unpack All function?

Unpack functionality offers extracting only one/several item(s) out of the SSCC parent with untouched hierarchy for the rest of the child items of the same parent. Parent SSCC after Unpack function remains commissioned even if stayed empty.

Unpack All function offers releasing all children aggregated in the parent SSCC from the parent with one action. Parent SSCC is after Unpack All function decommissioned.

6.1.2 Can I reuse parent SSCC after unpacking an item(s)?

The parent SSCC can be (re)used for further usage even if the parent SSCC remains empty after unpack action since it is not decommissioned.

6.1.3 Can I reuse parent SSCC after unpacking All action?

After performing Unpack All from the Tatmeen portal or mobile solution, the parent SSCC won't be able to be reused for further usage since the portal and mobile will automatically decommission it after an Unpack All operation.

6.1.4 When do I use Unpack All function?

Unpack All function is typically used when the user needs to release all children aggregated in the parent from the parent with one action.

6.1.5 I have packed items into a parent but made a mistake. Can I cancel this?

You cannot cancel Pack action but you can use Unpack or Unpack All function instead.

6.1.6 I have unpacked items from a SSCC parent but made a mistake. Can I cancel this?

You cannot cancel Unpack action but you can use Pack or Unpack All function instead. If SGTIN parent was unpacked, it cannot be pack again.

6.1.7 I have used Unpack all function on a SGTIN parent but made a mistake. Can I cancel this?

Unpacking all the children out of SGTIN parent is irreversible action. Items cannot be packed into SGTIN again, but they can be packed again in a logistic unit identified by a SSCC. A SSCC code can be obtained via the Tatmeen solution by using the Commissioning -> SSCC Request option.

6.1.8 I have unpacked only one item out of the parent, but I wanted to unpack more. How do I correct this?

Unpack function can be used more than once to subsequently remove more items from the parent unit. Unpacking one item does not exclude others to be unpacked as well on a subsequent operation.

6.1.9 I am trying to unpack an item, but system shows that it is not packed into this parent, what should I do?

If the item is physically packed into a different unit that what is recorded in Tatmeen, Tatmeen will show an error as this can be a sign that the tracking operations haven't been correctly followed. In this case, please unpack from the original parent if required.

6.1.10 I am trying to pack an item, but system shows that it is already packed into another parent, what should I do?

If the item is already packed into a parent, then it needs to get unpacked first. The system will provide an option to unpack this item from the parent in Tatmeen. Once the unpacking in Tatmeen is done then this item can be packed.

6.1.11 How can I see what is packed in a parent?

This information can be seen by using the Verification transaction in portal and mobile and scanning the code.

6.1.12 I am physically unpacking items, and one item doesn't have a 2D Data matrix barcode label. In this case what should I do?

If there's no barcode label in the product, this can be a sign that the product hasn't been correctly commissioned and there's a risk that the product is a counterfeit and/or

the integrity of the supply chain has been compromised. In this case, please abstain to perform any further operations with the item.

6.1.13 I am unpacking items, and one item is giving an error that it is not known to Tatmeen. In this case what should I do?

This can be a sign that the product hasn't been correctly commissioned and there's a risk that the product is a counterfeit and/or the integrity of the supply chain has been compromised. In this case, please abstain to perform any further operations with the item. Please get in touch with COPPAE@mohap.gov.ae if you need to report it.

6.1.14 I am unpacking items and one item's barcode label is damaged. In this case what should I do and how do I identify which item (serial number) it is?

If the barcode label is damaged but the human readable information can still be seen, the information can be manually entered in the transaction. If the label is so damaged that the human readable information is also not readable, then in this case the serial number can be determined by:

- 1) Using supply chain partner's internal inventory management system to track the items and their serial numbers
- 2) In case these items are coming from other partner then ask the shipping supply chain partner to provide the serial numbers and do a physical inventory count to find out the missing items
- 3) Using Tatmeen portal to find the missing serial numbers: Tatmeen Portal > Product Verification > Scan/manually enter the parent or child item of the item that are lost/stolen/damaged > Click on the "Hierarchy" > Here you can see the parent as well as all the children's items for the item in question

7. GLOSSARY

General short terms and abbreviations can be found in the global Glossary (see section 1.7 of this document). A list of additional terms that were referred to in this document have also been added here:

Acronym	Term	Definition
API	Application Programming Interface	API Management is a solution included in the SAP BTP that provides the means to integrate SC (participants) via a B2B connection.
ATTP	Advanced Track and Trace for Pharmaceuticals from SAP	The SAP solution supports track and trace activities designed for pharmaceutical purposes but also supports other industries.
EPCIS	Electronic Product Code Information Services	EPC information services (EPCIS) is an EPC global standard designed to enable EPC-related data sharing within and across enterprises. This data sharing is aimed at enabling participants in the EPC global Network to obtain a common view of the disposition of EPC-bearing objects within a business context.
GCP	Global Company Prefix	Global Company Prefix
GLN	Global Location Number	Global Location Number
GS1	Global Standards One	GS1 (https://www.gs1.org/ and https://www.gs1ae.org/) is a global organization dedicated to the design and implementation of global standards and solutions to improve the efficiency and visibility of supply and demand chains globally and across sectors. The GS1 system of standards is the most widely used supply chain standards system in the world.
GTIN	Global Trade Item Number	Identifier for trade items developed by GS1. Such identifiers are used to look up product information in the database (often inputting the number through a bar code scanner), which may belong to a retailer, manufacturer, collector, researcher, or other entity.
KG	Kilogram	Kilogram
MAH	Marketing Authorization Holder	An organization that is the brand-owner of a particular product.
MoHAP	Ministry of Health and Prevention of the UAE	UAE ministry is responsible for regulation, healthcare delivery, and oversight.
N/A	Not Applicable	This shall be used where no relevant information can be added.
SC	Supply Chain	The service to support logistics operations relating to the sourcing and transportation of goods. The broader application can also support services.
sGTIN	Serialized Global Trade Item Number	Serialized Global Trade Item Number
SHP	Shipment Import Permit	Shipment Import Permit
SME	Subject Matter Expert	Subject Matter Expert

Acronym	Term	Definition
SSCC	Serial Shipping Container Code	A GS1 identification key is used to identify a logistic unit. This unique identifier is comprised of an Extension Digit, a GS1 Company Prefix, a Serial Reference, and a Check Digit.
System	Tatmeen	Tatmeen
Tatmeen	Name of the United Arab Emirates Track & Trace (T&T) System	Name of the Track & Trace (T&T) System
T&T	Track and Trace	An electronic solution to support the recording of the historic movement of goods based on the unique identification of goods. Subsequent evaluation of the electronic records supports reporting of movements and their traceability.
UAE	United Arab Emirates	United Arab Emirates
UoM	Unit of Measure	Unit of Measure
URL	Uniform Resource Locator	The mechanism used by browsers to retrieve any published resource on the web.
WHO	World Health Organization	World Health Organization
WHO ATC Codes	World Health Organization Anatomical Therapeutic Chemical code	A unique code is assigned to medicine according to the organ or system it works on and how it works.
WMS	Warehouse Management System	Warehouse Management System
3PL	Third-Party Logistics	External (to the MoHAP organization) supply chain partners.

Table 2 Glossary

Training Manual for Hierarchy Change

Document ID:

Tatmeen_TRM-0097_Training Manual
for Hierarchy Change_v1.0