

RELEASE NOTES ABSSolute v9.08.00

ABS Laundry Business Solutions

Introduction

Version

Version	Status	Date	Ву	Changes
0.1	DRAFT	March 2024	TVS	DRAFT version
0.2	DRAFT	April 2024	TVS	DRAFT version
1.0	Final	April 2024	RHE	FINAL version

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HIGHLIGHTS IN THIS RELEASE

This release introduces the following main features.

New chapters for SERCURITY and INTERFACING topics!

We would like to bring extra attention to the two new chapters we added to this document. One new chapter is dedicated to security related topics and the other new chapter is introduced for all topics related to interfacing with all kinds of third-party solutions. Both chapters will be maintained and kept up-to-date with every new release.

Click **HERE** to read more about security related topics.

Click **HERE** to read more about interfacing related topics.

Functional highlights in this release:

Audit Trailing Monitor

Where the standard application goes as far as capturing the last user and timestamp, the audit trailing goes all the way in logging changes made to data. Not only the last user and timestamp, but also every change made to any field. For auditing purposes this is essential. Besides the system capturing all the changes made to almost every field and keeping it historically, we also developed a new dialog to easily get insight into those historical data changes. The new dialog called 'Audit Trailing Monitor' is developed to monitor (audit) the database tables more easily. This can be done for trouble shooting or for monitoring changes and keeping the changes for a certain amount of time. [READ MORE]

Improved user experience by using function keys

Most of the dialogs in ABSSolute have buttons which can be pressed using specific key combinations. With the view to continuous improvement of the user experience we extended the list of key combinations. [READ MORE]

Transferring customer with overlapping ID-codes from one BU to another BU

There are cases where it is inevitable to have items that have the exact same primary IDs, or barcodes in different business units. Sometimes these customers need to be transferred into the same plant. This functionality will allow for this to happen. [READ MORE]

Linen bundle management

The next step in bundle management, especially for hospitality laundries with improved bundle logistics with the plant and insights in produced and available bundles for order picking. [READ MORE]

1 SECURITY RELATED NEWS

This section contains a Security Overview for ABSSolute. The main Security improvements to ABSSolute from v9.07.00 – v9.08.00.

1.1 ABSSolute (Cyber) Security overview

Introduction

ABS has recognized that security is ever increasing in importance, and we therefore start going into detail regarding the security improvements included in our latest release. Beyond functional improvements, security improvements are important reasons to upgrade to our latest release, to keep you and your customers' (data) safe. The most notable changes have been included based on input from audits, both initiated by ABS itself and its' customers, for example on the ABS Web Portal.

The overviews defined below can easily be used to identify possible security risks based on the ABSSolute release deployed. The same Security overviews shall be added to key documents like *ABSSolute Certification Matrix*, periodically *technical pre-investigations* and used in *ABSSolute upgrade plans*. Regular updating the ABSSolute system and execution periodically maintenance is needed to keep the application system healthy.

The ABS support department is available for any support in this matter.

1.2 ABS Security Risk Classification

The following risk classification is defined for the Security Overview:

	Security Risk	In Support Software	Out of Support	
Nr	Classification	(ABS / 3rd Party)	Software	Description
				No known issues or
1	Low / None	X	Х	hardly a threat
2	Medium	Х	Х	Possible threat
				High Risk & Active
3	High / Critical	X	X	threats

High and critical items do have a CVSS v3 classification of 7.0 or higher.

More information about CVS classification can be found at: https://www.sans.org/blog/what-is-cvss/

The following ABSSolute system Security Overview does contains the risks identified for the <u>ABSSolute software</u> together with their <u>3rd party software components</u> used:

ABSSolute Component Security Risk Overview

			ABS Ve	rsions wit	n Release	date (late	st patch a	pplied)
	ABSSolute		V903	V904	V905	V906	V907	V908
Nr	Component	Function	2019 Q1	2020 Q1	2021 Q1	2022 Q1	2023 Q1	2024 Q1
1	Client	FAT client installed on PC for application users	X	Х	X	X	X	Χ
2	V10 Web client	Web client for application users	ı	1	1	1	-	Χ
3	Application Server	Server for ABSsolute client and Web services	X	X	X	X	Χ	Χ
4	Report server	Reporting for ABSSolute client and Web portal	X	X	X	Х	X	Х
5	Web services	Used for Android / Mobile Apps / Integration	X	X	X	X	Х	Χ
6	Web Portal	Customer Web Portal	X	Х	X	X	Х	Х

3rd party Software Component Security Risk Overview

	-			3rd par	ty SW wit	h Release	date (late	st patch a	pplied)
	3rd Party			V903	V904	V905	V906	V907	V908
Nr	Component	Function	Versions	2019 Q1	2020 Q1	2021 Q1	2022 Q1	2023 Q1	2024 Q1
1	Apache HTTP web	Traffic redirection, load		х	х	х	x	х	Х
1	server	divider & SSL certificate	Version 2.4	^	^	^	^	^	^
			Glassfish 4.1.1	Х	-	-	-	-	-
2	Web server	Deploys Web portal and	Payara 5	-	Х	Х	Х	-	-
		ABS Web services	Tomcat 9 / TomEE 8	-	-	-	Х	Х	Х
			11C (11.2)	X	-	-	-	-	-
3	Oracle database		12C (12.2)	X	Х	X	X	-	-
		Transactional database	19C	-	Х	Х	Х	Х	Х
			OBI 12.2.0.3	Х	-	-	-	-	-
4	BI server		OBI 12.2.0.4	-	Х	Х	Х	Х	-
		Bussiness Intelligence	Analytics 2023	-	-	-	-	Х	Х

1.3 Recommendations

Important remarks to keep the software stack save:

- Stay on a *supported ABSSolute software* release.
- Have *periodically software fixes applied,* for 3rd party software components is on quarterly cycle currently.
- Software fixes are made available on supported releases thru the ABS support maintenance agreement.
- Periodically software patch *installation activities* are covered by a Technical SLA or Hosting agreement.
- *Monitor actively* ABS security announcements, those will be shared by the support department when needed.

1.4 ABSSolute Security Improvements V907 – V908

List of important and ongoing security and technical improvements to keep the ABS system secure:

ABSSolute			Scope	Component	
Version	ABS ticket	Implements	Туре	Туре	Details security improvement / vulnerability
V907	ABS-133866	Mitigation of SpringShell vulnerability	Technical	Independed applications	Impact of SpringShell vulnerability CVE-2022-22965 and potential mitigations Scope: ABS Mobile Rest Services, for the Local Print Server and for the UHF Concentrator https://spring.io/blog/2022/03/31/spring-framework-rce-early-announcement
V907		Upgrade to Java 17, java 11.0.17	Technical	Core Application Java Runtime	https://www.cvedetails.com/vulnerability- list/vendor_id-93/product_id-19116/version_id- 718004/Oracle-JDK-11.0.17.html
V907	ABS-138400 ABS-136062	TomEE 8 replacing Payara Web server	Technical	Web server	Tomcat 9 / TomEE is successor for Payara Web server (out of support)
V907	ABS-137015	Spring to 5.3.25/SpringBoot to 2.7.8	Technical	App server embedded web server for REST	https://mvnrepository.com/artifact/org.springframework.boot/spring-boot/2.4.1
V907	ABS-137015	Embedded Tomcat Core from 9.0.41 to 9.0.71	Technical	App server embedded web server for REST	Upgrade App server embedded Tomcat Embed Core to 9.0.71
V907.01	ABS-72424	Phaseout Log4J V1 libraries	Technical	All components	https://tomcat.apache.org/security-9.html
V907.01	ABS-143085	Security fix ABSSolute client readonly user	Functional	ABSSolute client	Prevent commits in the database when user is readonly
V907.02	ABS-148169	Implement SSL for internal REST app traffic	Technical	App server embedded web server for REST	ABSSolute Server that is exposing REST operations can now run HTTPS
V907.02	ABS-35982	Encryption of all passwords in property files	Technical	App & Rep servers	Solution for encryption of sensitive info from configuration files
V907.02	ABS-148748	3rd party libraries update	Technical	Core Application libraries	Update vulnerable commons libraries, Client, Webportal & App Server
V907.02	ABS-148601 ABS-146289 ABS-149590	security improvements	Technical	Customer Web Portal	Improved Content Security Policy to prevent insertion of inline scripts Setting the SameSite attribute to JSESSIONID cookie in ABSWebPortal prevent debug messages shown from public network, implementation of header content length
V907.03	ABS-152161	Web portal security improvements	Technical	Customer Web Portal	Hide server information from public network
V907.03	ABS-151135	WebClientX apps to Primefaces 12.0.4	Technical	Web Client X	WebClientX, replace primefaces 8, https://www.primefaces.org/blog/primefaces-12-0-4- released/
V907.03	ABS-151135	Web portal upgrade to Primefaces 12.0.4	Technical	Customer Web Portal	Customer Web portal, replace primefaces 8 https://www.primefaces.org/blog/primefaces-12-0-4-released/
V907.04	ABS-151122	Web apps - upgrade to JakartaEE 9.1	Technical	Web applications framework	Customer Web Portal, replace JavaEE 8 with JakartaEE 9.1
V907.04	ABS-157307	Implement Springboot 3 for APP server	Technical	App server web server runtime	End of live Springboot 2 18-nov-2023, https://endoflife.date/spring-boot
V907.04	ABS-157307	Implement Spring framework for APP server	Technical	Core Application framework	End of live Spring 31 December 2024, https://endoflife.date/spring-framework
V907.04	ABS-153002	Upgrade to new core release Java 17	Technical	Core Application Java Runtime	https://docs.azul.com/core/release/april-2023/release-notes/release-notes

2 INTERFACING

This section contains the main general improvements to ABS*Solute* that cannot be grouped under one specific business line.

2.1 Migration of generic Webservices from SOAP to REST

2.1.1 Introduction

Spread over the year 2023 ABS migrated her SOAP (Simple Object Access Protocol) based interfaces to REST (Representational State Transfer) based interfaces for our organization's APIs (Application Programming Interfaces). This migration is essential for staying competitive, enhancing agility, and meeting the evolving needs of our customers and partners.

2.1.2 Current status

Currently, our organization utilizes both SOAP and REST for its API interfaces. While SOAP has served its purpose well, it comes with certain limitations and challenges that hinder our ability to adapt quickly to market demands and technological advancements.

Since ABSSolute v9.06.00 we created new REST based interfaces with the at least the same functionality as our SOAP interface. With our v9.08.00 core release we have finalized this migration and terminate our SOAP based interfaces starting next core release. This means that SOAP can be used and will be supported for the v9.08.00 core release support period of two years (Q2 2026). Starting v9.08.01 REST based interfaces must be used for interfacing with our products.

2.1.3 Migration of interfaces

Migrating from SOAP to REST-based interfaces presents a strategic solution. REST offers several advantages:

- **Simplicity**: REST APIs are simpler to implement and understand, utilizing standard HTTPS methods (GET, POST, PUT, DELETE) and lightweight data formats (JSON).
- Loose Coupling: REST enables loose coupling between clients and servers, allowing for greater flexibility and independent evolution of services.
- **Performance**: REST APIs have better performance due to their lightweight nature, leading to faster response times and improved scalability.
- **Flexibility**: REST supports a wide range of data formats and can easily integrate with other web technologies, providing greater flexibility for developers and partners.

2.1.4 Benefits

The migration to REST-based interfaces offers several key benefits to your organization:

- Improved Developer Experience: REST APIs are easier to work with, resulting in faster development cycles and reduced time-to-market for new features and services.
- **Cost Savings:** By simplifying your API infrastructure and reducing complexity, you can lower maintenance costs and optimize resource utilization.
- **Better Integration:** REST's compatibility with existing web technologies and standards simplifies integration with third-party systems and enables seamless collaboration with partners.

2.1.5 Implementation Plan

To ensure a smooth transition from SOAP to REST-based interfaces, we advise the following implementation plan:

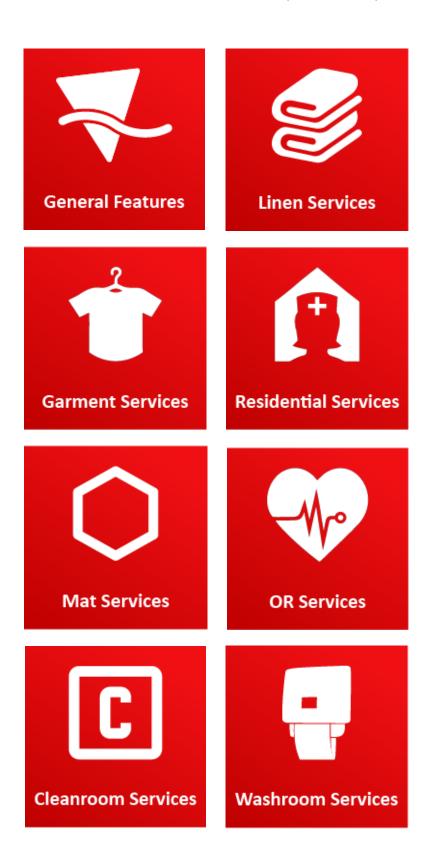
- Conduct a thorough analysis of existing SOAP APIs and identify key functionalities and dependencies.
- Design RESTful equivalents for each SOAP service.
- Develop migration tools and scripts to automate the conversion process where possible, minimizing manual effort and reducing the risk of errors.
- Test the migrated APIs rigorously to ensure functionality parity with the original SOAP services and validate performance and scalability metrics.
- Monitor and evaluate the performance and feedback of the REST APIs post-migration, making adjustments as necessary to optimize functionality and address any issues that arise.

2.1.6 Road-map REST WebServices

Below you'll find an aggregated overview of all WebServices that are migrated from SOAP to REST. For more technical details about how to use them, please contact your account manager of our service desk.

Year	2023 ⊸▼						
	Q1	Q2	Q3	Q4	Q4		
Wave #	Release 🔻						
Description	V9.07.00	V9.07.02	V9.07.03	v9.07.04	V9.08.00	(blank)	Grand Total
⊕ ABS - Introduction wave	8						8
■ Wave 0 - Identification Server		1					1
■ Wave 1 - Customer structure related WS		3					3
■ Wave 2 - Wearer related WS		3					3
■ Wave 3 - Wearer inventory related WS		7					7
■ Wave 4 - Garment Service related WS		5					5
■ Wave 5 - Product related WS			3				3
■ Wave 6 - Linen ordering related WS			5				5
■ Wave 7 - Customer product related WS			4				4
■ Wave 8 - Customer pricing related WS			4				4
■ Wave 9 - Customer service related WS				8			8
■ Wave 10 - Customer payment related WS				2			2
■ Wave 11 - Customer stockroom ordering WS				3			3
■ Wave 12 - General system related WS					4		4
⊞- Mobile APP related WS]					2	2
Grand Total	8	19	16	13	4	2	62

CONTENT PER BUSINESS LINE (SHORTCUT)



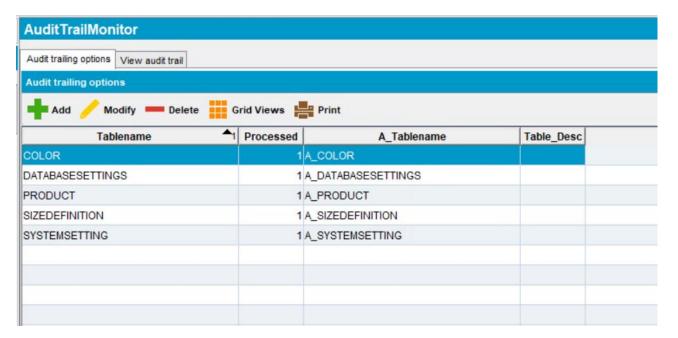
3 GENERAL FEATURES

This section contains the main general improvements to ABS*Solute* that cannot be grouped under one specific business line.

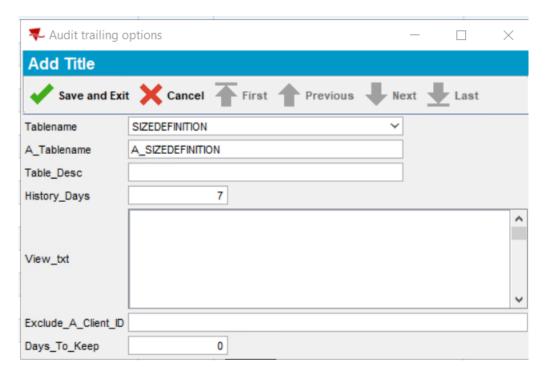
3.1 Audit Trailing Monitor: New dialog!

New dialog to start more easily to monitor (audit) the database tables. This can be done for trouble shooting or for monitoring changes and keeping the changes for a certain amount of time.

This dialog is only available for system users with admin rights when the audit module is in place.



For example, if we want to audit the SizeDefinition table, then you simply select from the drop-down list of all tables available the SizeDefinition table and press save.



Historical days are the number of days, that we want to look back to see if something has been changed for this table in the view audit trail dialog.

The Days to keep, is the number of days we want to keep the data in the audit table in this case A_SIZEDEFINITION. Leaving it blank or 0 means no cleanup will be done. But if we want to keep this data for example for 7 days as well, we enter there 7.

The view txt is automatically filled when you press save, with a query that will be used to show the data in the audit trial dialog.

Exclude client, is an option to optionally exclude a client from being monitored.

When we do that, we must also schedule the cleanup of the audit tables, one time for all audit tables. You can select it from the scheduled processes, and we would suggest using a daily time interval in the evening to clean up the audit table data.



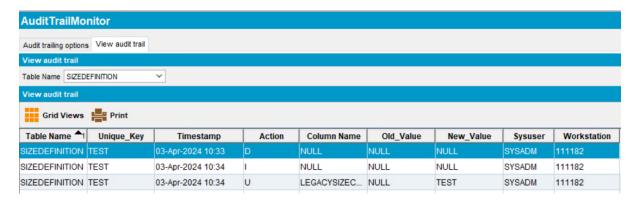
Now as soon as the entry is made to start and audit a table, you look at the view audit trial dialog to go and see what changes have been done to the data in that table.

So first select the table for which you want to see the changed data.

Now it will show if a record was inserted, as a capital I in Action column, or updated as a U or Deleted with a D.

When an update was done and only one column was updated it will show only that one column.

It will also show you the system user and workstation and the time when the action was done.



When you get a new release of ABSSolute and the tables that are being monitored are update with extra columns or changes to the columns, then during the update process the corresponding a-table are automatically also being updated to make sure all columns can be monitored correctly.

As your account manager or your support desk contact person for more information about this module.

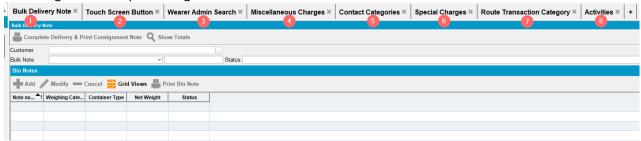
3.2 Improved user experience: Logical Keyboard Usage.

ABS NUMBER	ABS-153440
PURPOSE	Add key combinations for buttons in dialogs
AFFECTED DIALOGUES	Customer, Wearer, Maintain Packing and Delivery note, CPL, PLPC and delivery note/
SYSTEM SETTINGS	-
MODULES	-

Most of the dialogs in ABSSolute have buttons which can be pressed using specific key combinations. With the view to continuous improvement of the user experience we extended the list of key combinations.

General:

Switching between open dialogs.

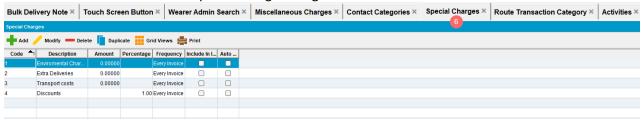


To switch between the open dialogs press [ALT- corresponding dialog number]

ALT-3 would switch over to the Wearer Admin Search dialog.



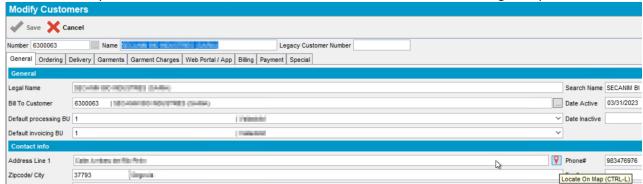
ALT-6 would switch over to the Special Charge dialog. Etc.



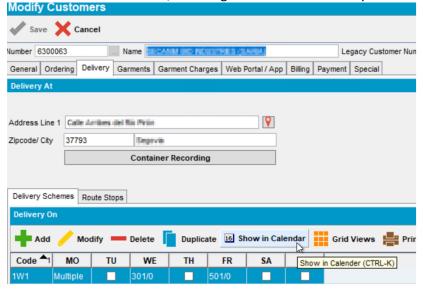
(closing the active dialog/tab can be via CTR-W)

Customer dialog:

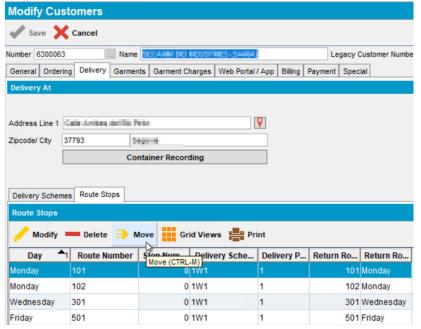
CTRL-L is the key combination for \P , which shows the customers address via Google Maps.



CTRL-K is the key combination for showin Calendar, showing the customers delivery scheme in a calendar view.



CTRL-M is the key combination for he which opens the sub dialog to move a route(stop).

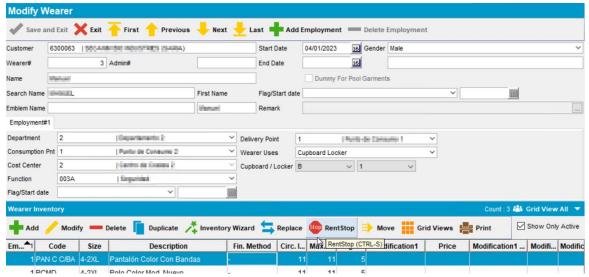


Wearer dialog:

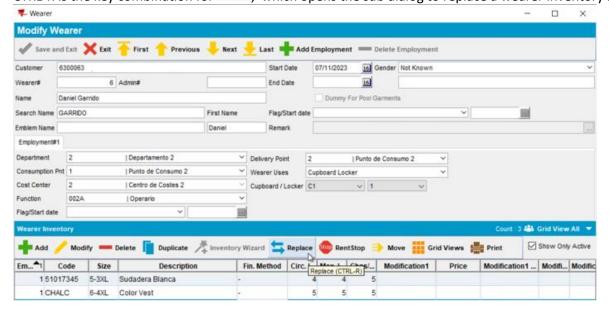
CTRL-M is the key combination for Move Wearer Employment, which opens the sub dialog to move a wearer employment.



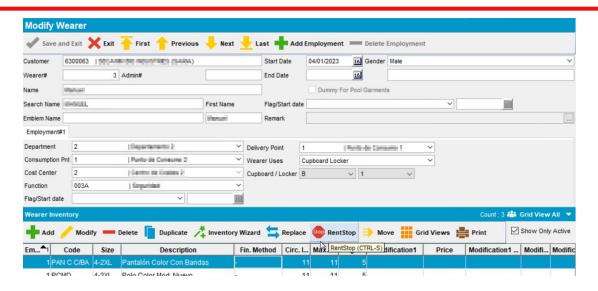
F9 is the key combination for , which opens the sub dialog to add a wearer inventory line based on the wearer function.



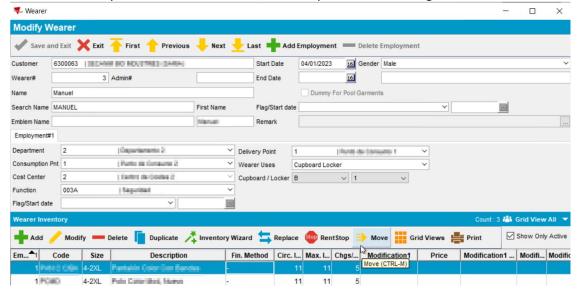
CTRL-R is the key combination for specific which opens the sub dialog to replace a wearer inventory line.



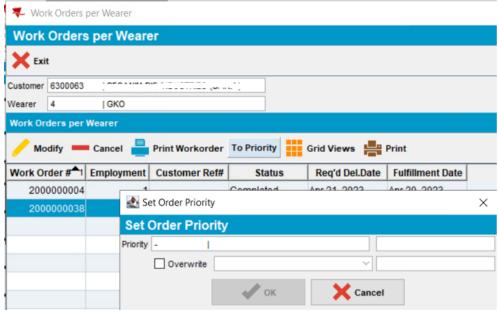
CTRL-S is the key combination for pentstop, which opens the sub dialog to add a temporary RentStop to a wearer inventory line.



CTRL-M is the key combination for ** Move*, which opens the sub dialog to move a wearer inventory line.

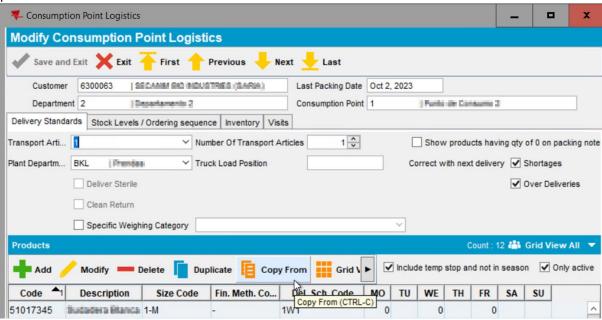


F8 opens the sub dialog to change the priority of a workorder



Consumption Point Logistics dialog:

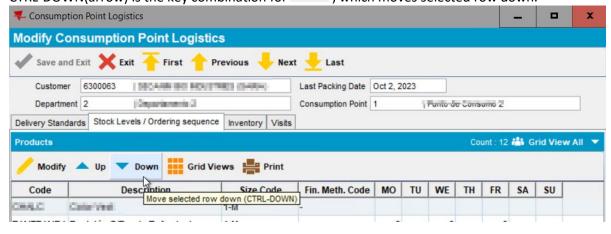
CTRL-C is the key combination for Graph From, which opens the sub dialog to copy consumption point products.



CTRL-UP(arrow) is the key combination for ______, which moves selected row up.

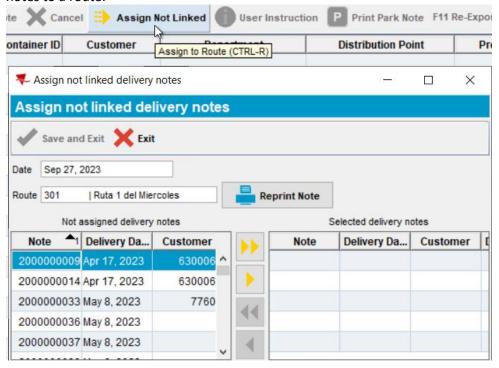


CTRL-DOWN(arrow) is the key combination for Vown, which moves selected row down.



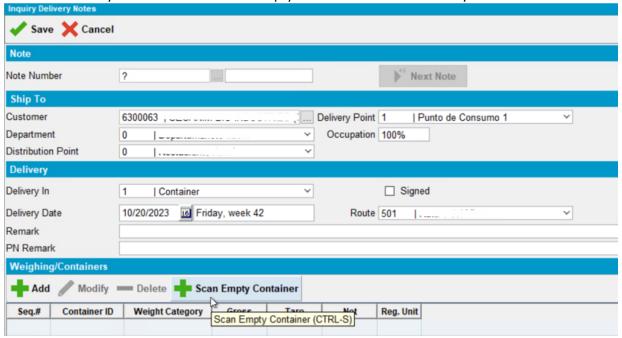
Maintain Packing - & Delivery note dialog:

CTRL-R is the key combination for Assign Not Linked, which opens the sub dialog to assign not linked delivery notes to a route.



Delivery Note dialog:

CTRL-US is the key combination to add an empty container line to the delivery note.



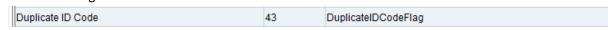
3.3 Customer transfer with duplicate items

ABS NUMBER	ABS-146697
PURPOSE	The purpose of this development is to be able to transfer customers from on plant to another if in the destination plant there are already items with the same primaryIDs as the ones that are being transferred
AFFECTED DIALOGUES	Transfer Customers, Transfer Routes, Outscan, Inscan, Maintain Unique Items, Repair Scan, Rewash scan, Checkpoint scan, Take Items Out of Circulation/in Batch, Rag Items From Stock, Rag in Batch, Outscansort in Batch, Delivery Note (outscan pool functionality)
SYSTEM SETTINGS	-
MODULES	GARMENT SERVICES

There are cases where it is inevitable to have items that have the exact same primary IDs, or barcodes in different business units. Sometimes these customers need to be transferred into the same plant. This functionality will allow for this to happen.

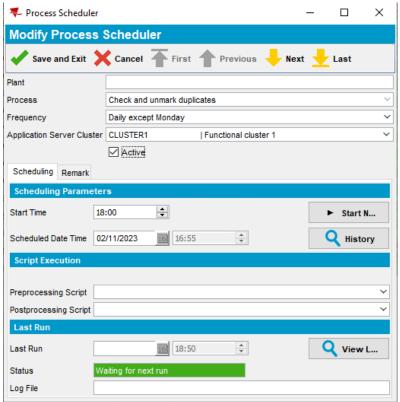
Prerequisites:

1. Automatic flag's existence



Without the existence of this, the transfer of the customer will be blocked, highlighting the duplicate items in the log.

2. As a backup. A process scheduler needs to be set up:



Logic:

- All duplicates will be marked during the transfer. This means that both instances of the transferred item will be flagged (transferred and already existing in the destination plant)
- Scanning these items will result in a pop-up showing up either to select the items the user is holding in their hands, or to relabel the items straight away.
- Once the duplicate question is solved (by relabelling, ragging etc) the flags will be automatically removed from the items that are still in circulation and are not duplicates anymore.
- If the duplicate in the destination plant is not in circulation, but in stock, then the items will not be flagged. When the item from the stock is about to be issued into circulation, the user will be asked to relabel it, otherwise it can't be issued back into circulation.
- The relabelling of duplicate items is standard functionality not changed from the Maintain Unique Items dialog.

Changes in dialogs when duplicates are scanned:

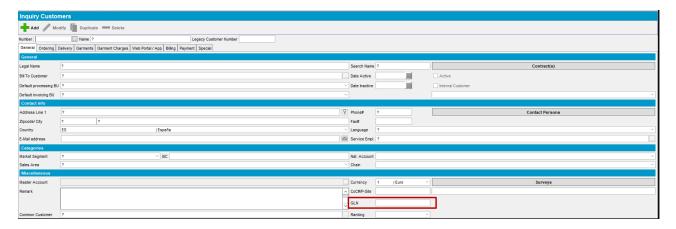
- Transfer Customers and Routes process will list the duplicates when transferring.
- Maintain Unique Items dialog: a pop up will be shown for the user to select the items in question, only relabelling can be done, before anything else.
- Scan is rejected with a message: *Duplicate ID code*. *Please change ID code* in the following dialogs: Outscan, Outscan Sort in Batch, Inscan, Repair Scan, Rewash Scan, Checkpoint scan, Flag Scan.
- Take Items out of circulation in both cases (back to stock or ragging) a selection needs to be made, then the process is the same as before.
- Take Items out of circulation in batch a selection needs to be made to find the correct item.
- Delivery note outscan functionality scanning is blocked with message: *Duplicate ID code*. *Please* change ID code

3.4 Customer dialog: Global Location Number (GLN)

ABS NUMBER	ABS-153437
PURPOSE	The Global Location Number (GLN) is often used as an identifier in
	electronic invoicing. To be more compliant this has been added as a
	field in ABSSolute.
AFFECTED DIALOGUES	Customer Dialog
SYSTEM SETTINGS	
MODULES	INVOICING

The Global Location Number is part of the GS1 systems of standards. It is a simple tool used to identify a location and can identify locations uniquely where required. This identifier is compliant with norm ISO/IEC 6523. The GS1 Identification Key is used to identify physical locations or legal entities.

Global Location Number (GLN) has been added to the customer dialog and can be used as an identifier when using electronic invoicing:



Note: If not previous in use with the electronic invoicing format changes to the functionality might be needed.

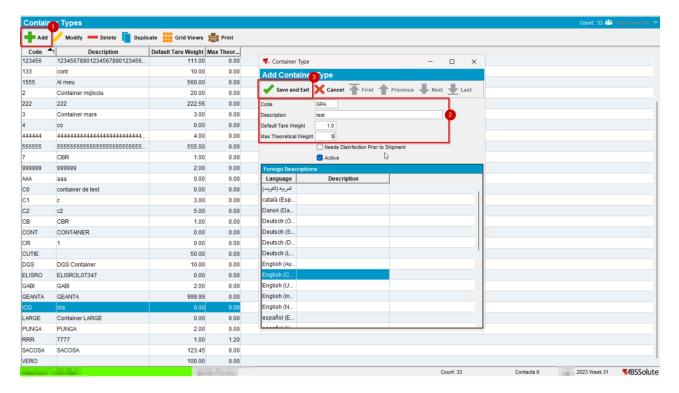
4 LINEN SERVICES

This section contains the main linen specific improvements to ABSSolute.

4.1 Container Types: Definition of maximum theoretical weight for container loading

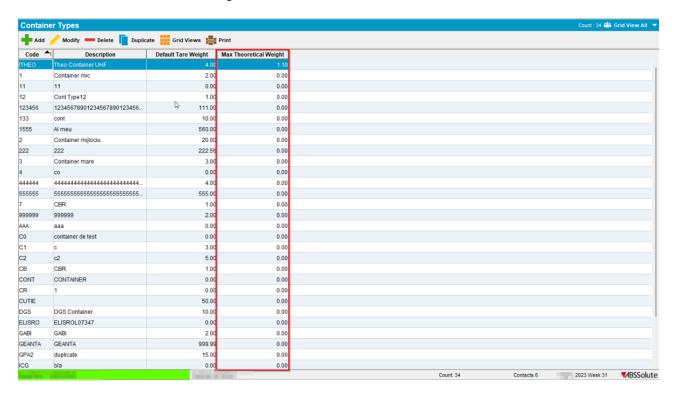
ABS NUMBER	ABS-153478
PURPOSE	Implementation of max theoretical weight used for future check
AFFECTED DIALOGUES	Container Types
SYSTEM SETTINGS	-
MODULES	Linen Services (Made for ABSSolute Infinity!)

With the view on the new generation *ABSSolute Infinity,* several preparations in the V9 desktop client are made to support new and future developments and functionalities. In this release we already include a new field on container type level => Max Theoretical Weight



- Add a Container Type
- 2) Fill in the details => Code / Description / Default Tare Weight / NEW FIELD Max Theoretical Weight
- 3) Save and Exit.

This new field is also available as a grid column via "Grid Views"

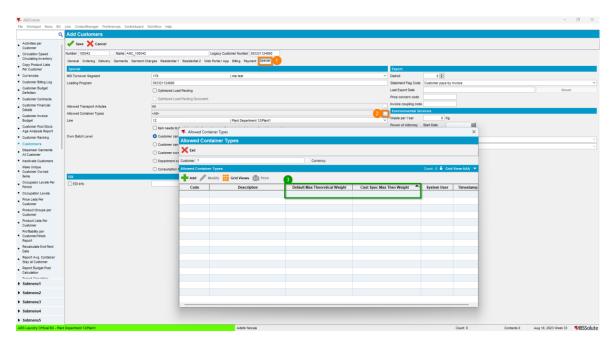


4.2 Container Types per Customer: Specific maximum theoretical weight for container loading

ABS NUMBER	ABS-153495
PURPOSE	Implementation of a Max theoretical weigh on container types per
	customer
AFFECTED DIALOGUES	Customer
SYSTEM SETTINGS	-
MODULES	Linen Services (Made for ABSSolute Infinity!)

With this software request a next step is implemented in the availability of Container Types per Customer and the implementation of an allowed maximum theoretical weight of this container type on customer level.

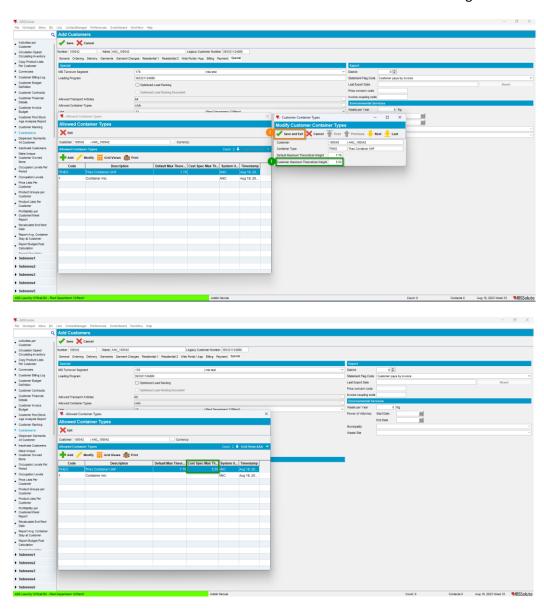
With module Linen (v10) on the "Special" tab of the "Customer" dialog the option is now there to set the allowed container types per customer:



- 1) Customer dialog, Special tab
- 2) Select button to open Allowed Container Types sub dialog
- 3) New column in grid => Default Max Theoretical Weight
- 4) New column in grid => Cust Spec Max theoretical weight

The value that is redisplayed in column Max theoretical weight is coming from the value set via the Container type dialog.

On customer level this default value can be overruled and visualized via the grid:



4.3 Container Check Scan: Print Container Content Bundle report for containers sent to buffer

ABS NUMBER	ABS-153492
PURPOSE	Have an accurate overview of the container and it contents when
	moving it to the Buffer Zone
AFFECTED DIALOGUES	Container Check Scan (v10)
SYSTEM SETTINGS	n/a
MODULES	Linen

With the implementation of the Linen – Unique Bundle flow containers can be loaded with unique bundles.

These containers can be sent to the customer (in a delayed even exchange method) or to the buffer zone (in an ordering method).

When the container and its contents is pushed to the buffer zone, via the Container Check Scan screen, a new report is printed via the Local Printer Server.

This report is the Container Content report.

CONTAINER CONTENT

Container ID : 99887766

Container Type : Grid container large

Customer : 123 Hotel Amsterdam

Department : Kitchen

Total theoretical weight incl. tara

Consumption Point : Men's Locker room 1

Packed content

Product Code	Product Description	Size	# Bundles	# Products
12345678	ABCABCABC	-	99	99
12345679	BCABCABCA	-	99	99

999999

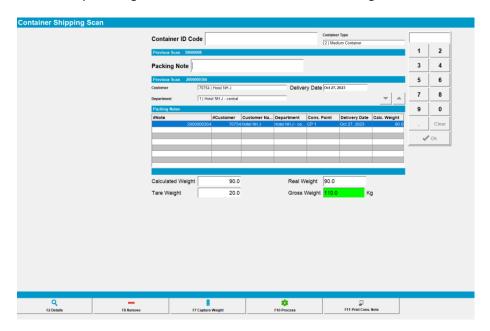
Print date: DD / MM / YYYY

KG

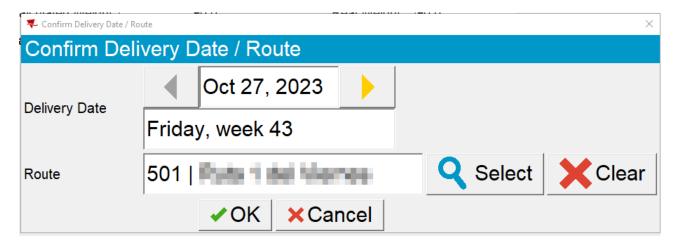
4.4 Container Shipping Scan: Possibility to generate consignment notes

ABS NUMBER	ABS-153489
PURPOSE	Allow the generation of Consignment Notes
AFFECTED DIALOGUES	Container Shipping Scan (v9)
SYSTEM SETTINGS	n/a
MODULES	

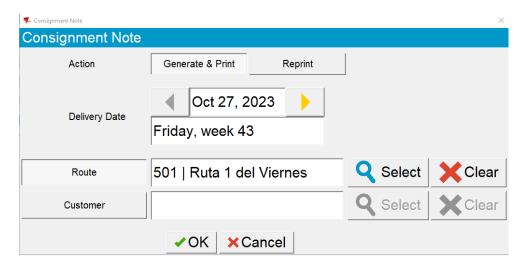
With this update a great new feature will be unlocked, the generation of the Consignment Note.

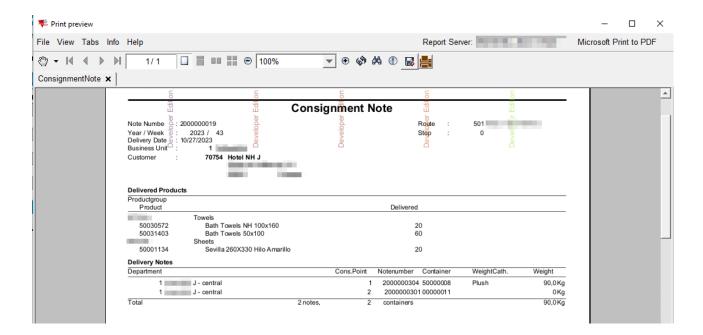


When processing the delivery note the actual delivery date can be updated.



When the route or customer has been completed the Consignment Note can be generated:



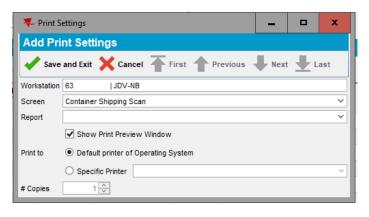


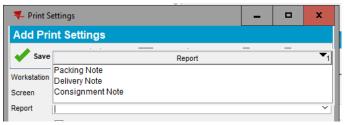
4.5 Workstation dialog: Extended "print without preview" options for Container Shipping Scan

ABS NUMBER	ABS-153818
PURPOSE	Allow bundles from buffer zone to be scanned and decrease bundles
	in buffer
AFFECTED DIALOGUES	Workstation (v9)
SYSTEM SETTINGS	n/a
MODULES	

With the modifications to the Container Shipping Scan module and application with the extension of the delivery note and consignment note also the workstation settings where updated accordingly.

The documents Packing Note, Delivery Note and Consignment Note are now available for printing without previewer.





4.6 Delivery Note dialog: Improved behaviour of unique bundle scanning

ABS NUMBER	ABS-155450
PURPOSE	Extension and adjustment on how the delivery note dialog acts
	/reacts when bundle functionality is used.
AFFECTED DIALOGUES	Delivery Note
SYSTEM SETTINGS	ALLOWCHANGEOUTSCANPOOLQTY / PNSCANNEWPRODUCTSIZE
MODULES	-

It already has been possible to outscan bundles in the delivery note dialog. Via this order the delivery note dialog has been extended and adjusted on how the dialog acts when bundles are used. Besides generic adjustments also the values of system settings ALLOWCHANGEOUTSCANPOOLQTY / PNSCANNEWPRODUCTSIZE have a direct effect on the dialogs behaviour.

Example of adjustments/extensions

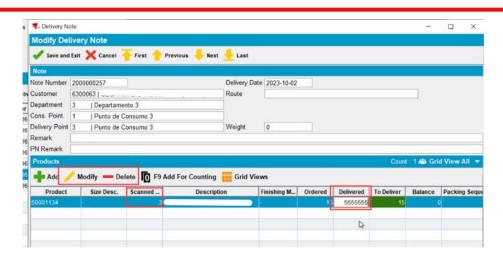
1. An error is displayed in case a bundle is scanned for a customer which doesn't have this product in it's PLPC:



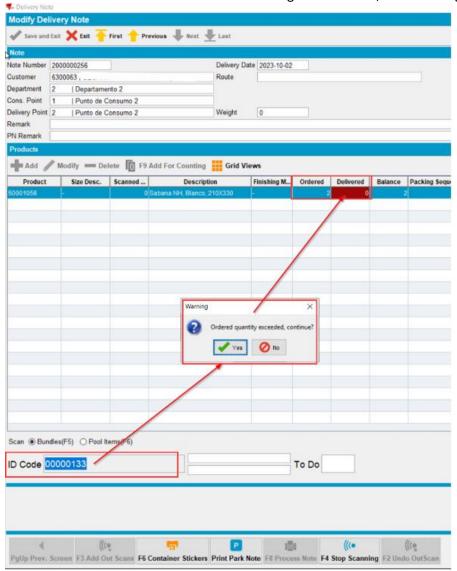
2. Based on System setting ALLOWCHANGEOUTSCANPOOLQTY with value No.: When at least one bundle is scanned for a product /size/ FM it is impossible to delete and remove the line, nor is it possible to adjust the delivered quantity in the grid.



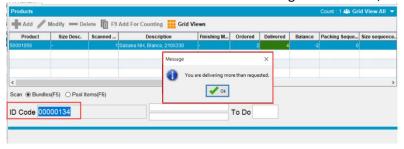
3. When the value of ALLOWCHANGEOUTSCANPOOLQTY is set to Yes, its possible to adjust the line.



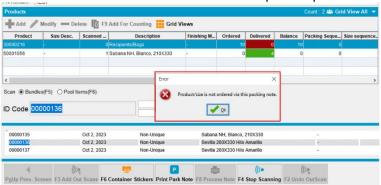
4. In case of PNSCANNEWPRODUCTSIZE having value 1 and 3, the following warning is raised.



5. In case of PNSCANNEWPRODUCTSIZE having value 2 and 4, the following message is raised.



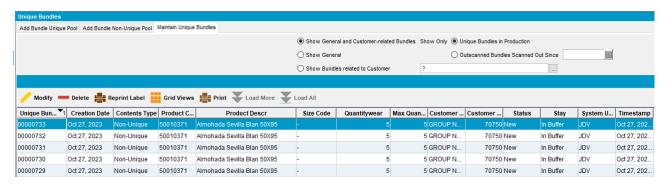
6. In case a bundle is scanned for a non-requested product



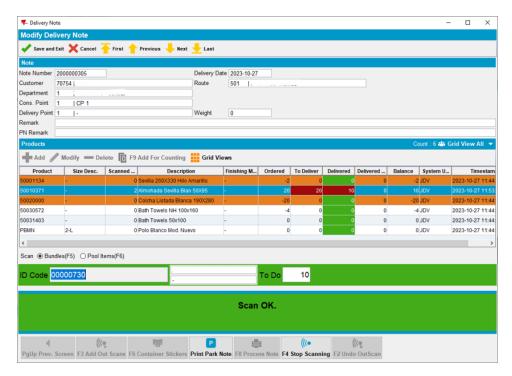
4.7 Delivery Note dialog: Improved stay definition of scanned out Unique Bundles

ABS NUMBER	ABS-156083
PURPOSE	Have an accurate overview of bundle stay when the delivery note is
	not processed yet
AFFECTED DIALOGUES	Delivery Note (v9)
SYSTEM SETTINGS	n/a
MODULES	

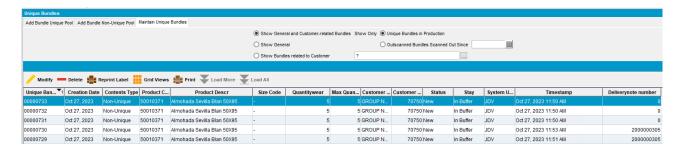
With this implementation the switch to stay Outscan/At Customer has been delayed until the moment of actually processing the delivery note. Below, before scanning to Packing Note



When scanning the Unique Bundle 00000729 & 00000730 to the Packing Note:



The status remains "In Buffer", although the unique bundles have been connected to the delivery note in progress

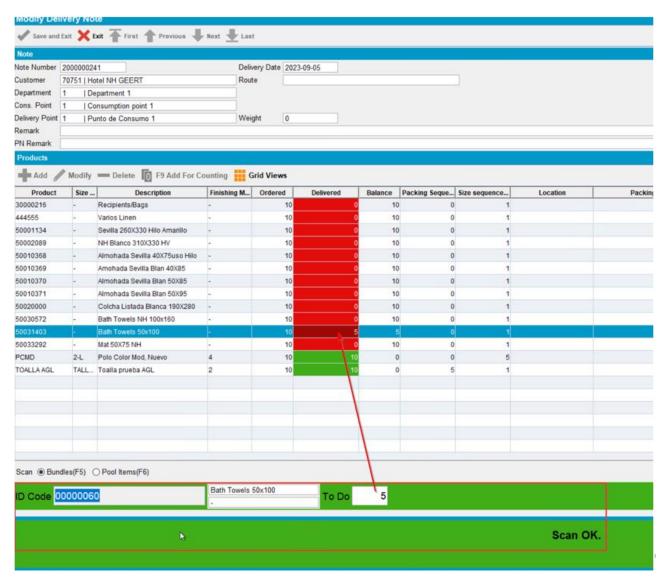


4.8 Delivery Note dialog: Accept bundles coming from "Buffer Zone"

ABS NUMBER	ABS-153945
PURPOSE	Allow bundles from buffer zone to be scanned and decrease bundles
	in buffer
AFFECTED DIALOGUES	Delivery Note (v9)
SYSTEM SETTINGS	n/a
MODULES	

With the implementation of a large Linen – Unique Bundle flow available via v10 technology the delivery Note in v9 also received the updates.

Part of the v10 Linen – Unique Bundle flow is the introduction of a "Buffer Zone" where prepared bundles are located that can be used to fulfil customer orders via regular packing notes.



With the allocation of unique bundles to the buffer zone they are not connected to any packing note yet and can be allocated to fulfil customer orders.

When scanning the unique bundle to the packing note the connection is made to the Packing Note and the Unique Bundle will be removed from the Buffer Zone.

Via BI the available Unique Bundle can be visualized as well as the containers they are connected to.

4.9 Delivery Note dialog: Improved behaviour of message for exceeding maximum quantity

ABS NUMBER	ABS-155055
PURPOSE	The purpose of this development is to improve the behaviour of the pop-up message when the delivered quantity is higher than the allowed quantity
AFFECTED DIALOGUES	Delivery note, Maintain Packing and delivery notes
SYSTEM SETTINGS	MINMAXQTYTODELIVER
MODULES	None

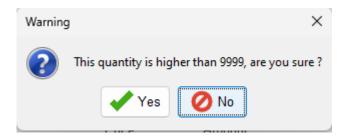
In case when the system has a quantity set up in the DELNOTEWARNINGLEVEL a check is performed every time a quantity is added to a packing note. When the added qty exceeds the system setting, then a pop-up message appears.

Until now, the focus was on Yes. With the introduction of option number 2 in the MINMAXQTYTODELIVER we add the option to have the focus moved from YES to NO, so in case the users do no pay attention, they will not be able to mistakenly approve a higher level of delivery.

The pop-up message when the focus is on YES:



The pop-up message when the focus is on NO, change made possible with option number 2 from MINMAXQTYTODELIVER system setting:



5 GARMENT SERVICES

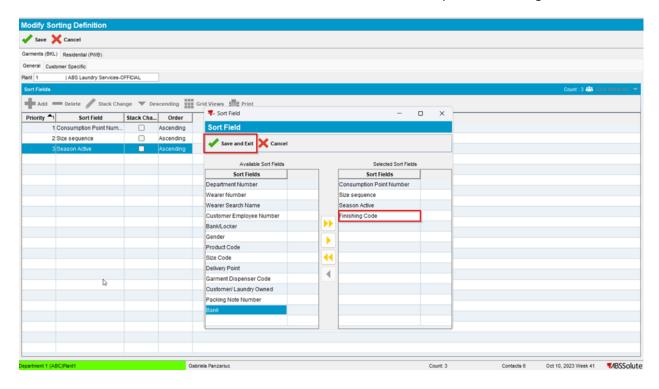
This section contains the main garments specific improvements to ABSSolute.

5.1 Sorting Definition: Finishing Code added as new sort field

ABS NUMBER	ABS-154407
PURPOSE	Allow laundries and their sorting system suppliers to make even
	more detailed sorting logic.
AFFECTED DIALOGUES	Sorting Definitions
SYSTEM SETTINGS	-
MODULES	-

We have added the option to include the Finishing Code to the Sorting Definitions which are shared with multiple sorting systems as Metricon and Kannegiesser.

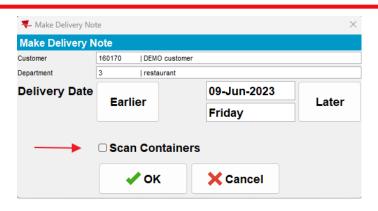
Until now this field was already included as a separate field, but it can now also be added to the SORTSTRING and STACKCHANGEINFO which are used to control the sequence of sorting.



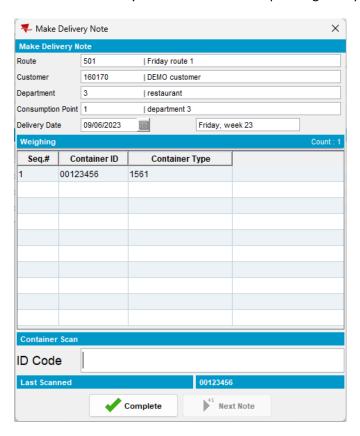
5.2 Outscan Sortbatch: Support scanning of uniquely coded containers

ABS NUMBER	ABS-146198
PURPOSE	Possibility to scan containers in OutScan SortBatch
AFFECTED DIALOGUES	Outscan Sortbatch
SYSTEM SETTINGS	-
MODULES	Batchjob

When generating a delivery note from the outscan sortbatch dialog (only available when BATCHJOB module is active) the option to scan the container(s) has been added. If container recording is used and the workstation has the option 'Record container number' checked then when generating the delivery note a checkbox is available to indicate that within the delivery note generation the user also likes to scan the container:



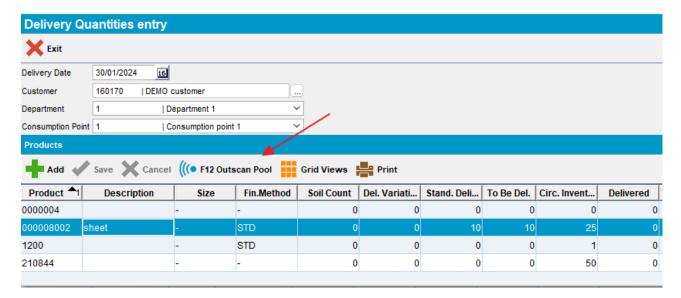
After pressing OK the user can scan the container(s) that are sent to the customer and when all have been scanned the delivery note is finalized after pressing 'Complete':



5.3 Outscan Sortbatch: Support scanning of uniquely coded pool items

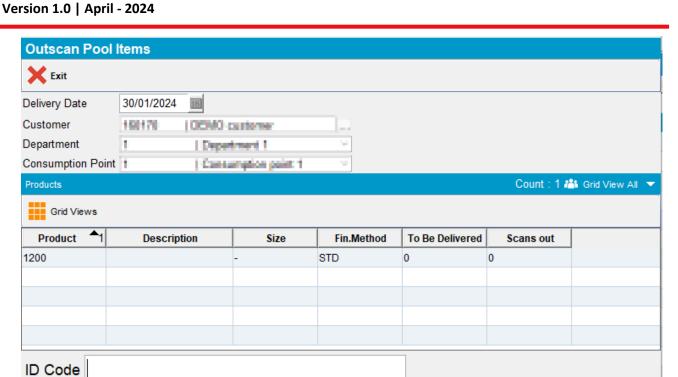
ABS NUMBER	ABS-141401
PURPOSE	Possibility to scan unique pool items in OutScan SortBatch
AFFECTED DIALOGUES	Outscan Sortbatch
SYSTEM SETTINGS	-
MODULES	Batchjob

Until now only non-unique pool items could be delivered via the outscan sortbatch dialog. This has been extended now so that it is also possible to scan out unique pool items either via barcodes or chips (single and multi-read). The outscan can be started from the 'Count' dialog by clicking F12 'Outscan pool' and the behaviour is similar to the pool outscan when done from the delivery note dialog:

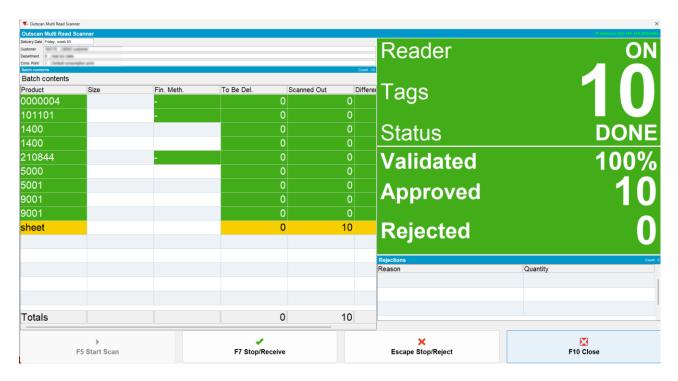


Depending on the workstation setup the scan single or multi read the layout of the scan dialog will be different.

Single read:



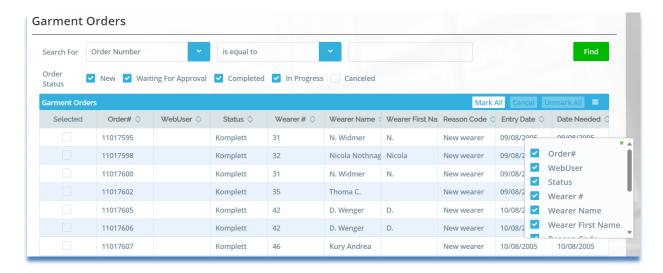
Multiread scan:



5.4 Web portal | Garment Orders: 'Wearer first name' added to grid columns

ABS NUMBER	ABS-153507
PURPOSE	The purpose of this development was to add the wearer first name field into the web-portal grid – on the Garment Orders page ABS-153507
AFFECTED DIALOGUES	Web-portal/Garment Orders page
SYSTEM SETTINGS	None
MODULES	BKLINTERNET

Column Wearer First name was added to the Garment orders page.



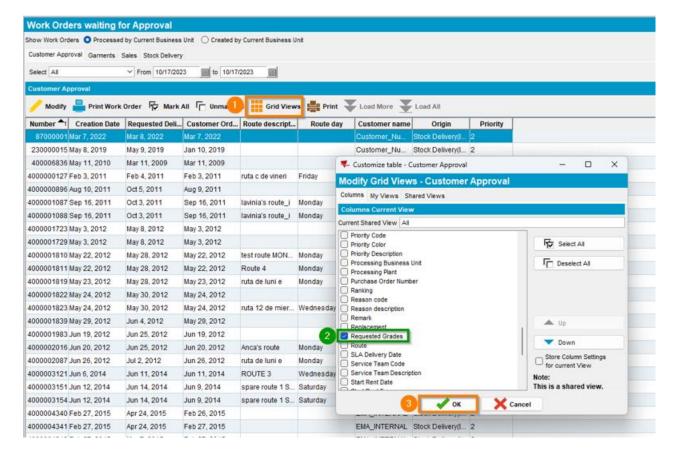
The field works the same way as all the other fields previously available. Can be used for sorting and search and it will be exported in CSV, Excel or PDF files, as long as the column is selected from the column list.

5.5 Work Orders Waiting for Approval: Requested Grades added to the grid views

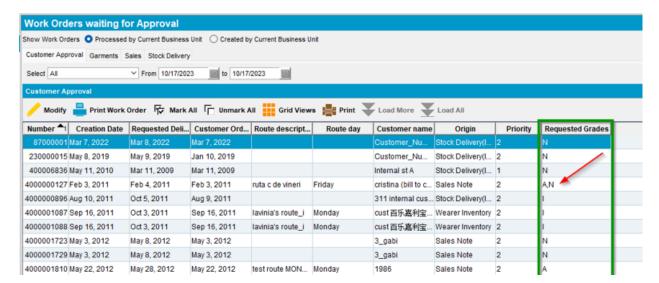
ABS NUMBER	ABS-153538
PURPOSE	Adding Grades in the grid to provide more visibility when approving
	work orders
AFFECTED DIALOGUES	Work Orders Waiting for Approval
SYSTEM SETTINGS	-
MODULES	Stockroom Management

When using Work Orders Waiting for Approval dialog, the requested grades for Work Orders will now display in the grid. This makes it more efficient to approve a work order, when requested grades are considered in the approval process. No longer will you need to open the Work Order to view the requested grades, making the process more efficient. If a work order has multiple lines with different requested grades the grid will display multiple grades in the field.

Below you see the option to select and add the "Requested Grades" column.



Below shows the column with the "Requested Grades". Note the Work Order that contains multiple grades in the field. This Work Order contains multiple lines with different grades.



4 RESIDENTIAL SERVICES

This section contains the main Residential improvements to ABSSolute.

4.1 Residential Sorting System Interface: Support of Secondary ID

ABS NUMBER	ABS-1160635
PURPOSE	Support SecondaryID in sortingsystem interfaces Residential
AFFECTED DIALOGUES	
SYSTEM SETTINGS	
MODULES	

Secondary IDs where already supported in residential garments, but not yet in interface with sorting systems. From now on also sorting systems can work with primary and secondary ID of a residential garment.

5 MAT SERVICES

This section contains the main Mat Services improvements to ABSSolute.

5.1 No changes to mat services in this release

6 OPERATING ROOM SERVICES

This section contains the main OR Services improvements to ABSSolute.

6.1 No changes to OR services in this release

7 CLEANROOM SERVICES

This section contains the main Cleanroom improvements to ABSSolute.

7.1 No changes to cleanroom services in this release

8 WASHROOM SERVICES

This section contains the main Washroom Services improvements to ABSSolute.

8.1 No changes to washroom services in this release

9 FACILITY SERVICES

This section contains the main Facility Services improvements to ABSSolute.

9.1 No changes to facility services in this release