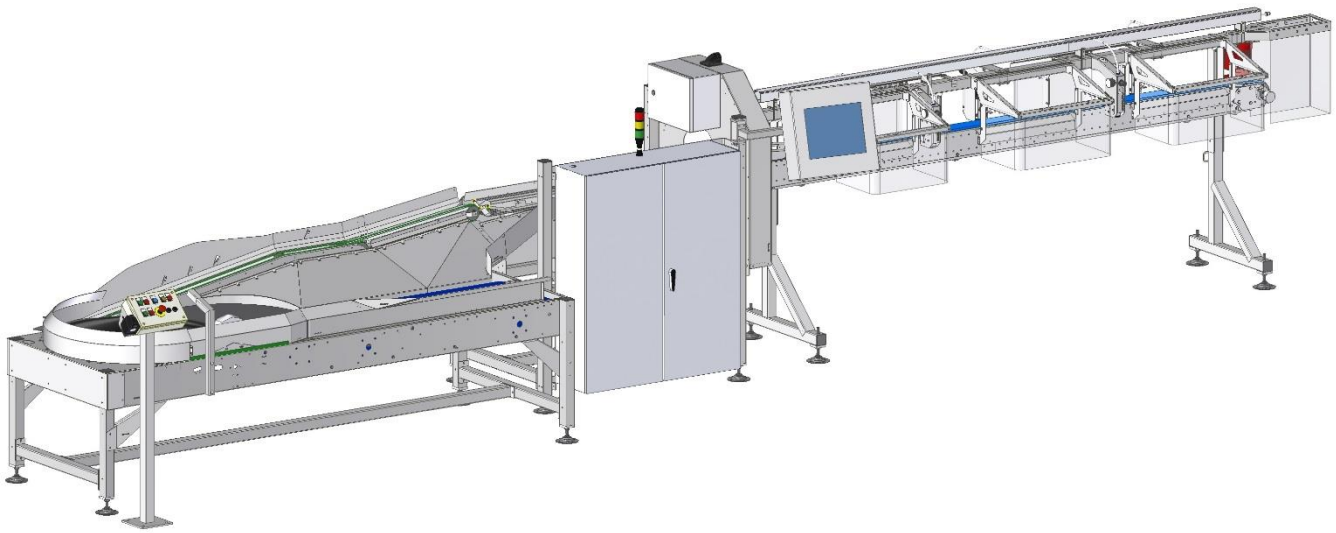
User Guide

How to understand HLZ file formats



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1. Introduction

The sales and non-sales reports define the counting result of a given batch.

The reports are placed in the files: Machine ID/*BatchID.sls and Machine ID/BatchID.nls* (default) as semicolon separated files. The file consists of a header and POS lines with the Machine ID, the article barcodes, the actual time stamp for detection and the batch ID.

1.1 Sales Report

The sales report (.sls file) includes all counted articles, which have been defined as refundable.

Articles are accepted, if the barcodes are defined in the Pricat*

The file can be viewed in a text editor like PSPad, or imported as text in an Excel spreadsheet or similar (see examples on the following pages).

*) Pricat (Price/Sales Catalogue). See document *How to Create Pricat files*.

1.2 Non-sales Report

The non-sales report (.nls file) includes all counted articles, which have been defined as non-refundable.

Articles are accepted as non-refundable, if the barcodes are defined in the SortingPricat** and if the barcodes are not to be found in the Pricat* or processing is done without a Pricat*.

Articles detected without the barcodes defined in any of the Pricats are also accepted as non-refundable (unknown).

Articles detected with damaged or no barcodes are also accepted but registered with dummy codes in the non-sales report. Example: 2000000000002

The file can be viewed in a text editor like PSPad, or imported as text in an Excel spreadsheet or similar (see examples on the following pages).

**) See document *How to Create Sorting Pricat files.*

1.3 Formats

The Standard is a flat ASCII with the following properties:

The semicolon (;) is the separator.

Null entries (empty fields) must also have a terminating semicolon.

If there are null entries at the end of a record type these must be terminated each with a semicolon.

2. Identification

Applies to all file types.

2.1. Header

Mandatory, used by the system to identify the file type.

Position	Identifier	Description/status	Format
Field No.1:	HDR	Always (identifier for heading section)	a3
Field No.2:	xxxx1234…	Machine number + fort-running number	an..14
Field No.3:	69	Identifier of message type (see code list)	an..2
Field No.4:	100	Message version number	n3
Field No.5:	Date of creation	YYYYMMDD	n8
Field No.6:	GLN First distributer	Dummy 0000000000000 (13 zeroes) allowed	n13
Field No.7:	GLN Service provider	Dummy 0000000000000 (13 zeroes) allowed	n13
Field No.8:	9	Always	an..3

Example:

HDR;16343498;69;;20210611;1111111111111;2222222222222;9

2.2. POS lines

The POS line contains the following information:

Position	Identifier	Description/status	Format
Field No.1:	POS	Always (Identifier for record section)	a3
Field No.2:	GLN manufacturer	5790001396978. Dummy 0000000000000 (13 zeroes) is allowed	n..13
Field No.3:	Blank	Key ID / Machine identification (serial number)	an..28
Field No.4:	Article number	Blank or dummy 2000000000002 if barcode is not readable *	n..14
Field No.5:	Date and time	YYYYMMDDHHMMSSnnn	n..17
Field No.6:	Signature	The signature of the POS record.	a0
Field No.7:	Machine ID	Collection point / Serial number (blank if not activated)	n..13
Field No.8:	Batch number	Batch ID	an..35
Field No.9:	Camera number	Article read by Camera	n1
Field No.10:	0 **	DPG-Mark (Only German machines)	n1
Field No.11:	0/Camera number **	DPG-Mark read by camera (Only German machines)	n1
Field No.12:	Ejection station No.	Actual No. depends on machine configuration	n..2
Field No.13:	Article accept type	The accept type or the validation classification result	n..2
Field No.14:	0/RBREF **	The relative reflection value of RB (Red/blue light exposure)	n..3
Field No.15:	0/IRREF **	The relative reflection value of IR (Inferred light exposure)	n..3
Field No.16:	0/SUBTYPE **	The type of the orientation markings of the DPG-mark	n..3
Field No.17:	Deposit amount	Local information	n..15
Field No.18:	Type of material	See document How to Create Pricat files.	an..2
Field No.19:	Detected material type	Detected material type (see Type of material code list).	an..2
Field No.20:	Detected length	Detected length in millimetres (if feature is added)	n..4
Field No.21:	Detected height	Detected height in millimetres (if feature is added)	n..4
Field No.22:	Detected width	Detected width in millimetres (if feature is added)	n..4

Example:

```
POS;5790001396978;;8718452466924;2021061113400936;;1634;1003785038797044;9;0;0;0;0;0;0;;0,25;1;;;;
POS;5790001396978;;8718452466924;2021061113401034;;1634;1003785038797044;2;0;0;0;0;0;0;;0,25;1;;;;
POS;5790001396978;;5000112544633;2021061113401073;;1634;1003785038797044;11;0;0;0;0;0;0;;0,25;1;;;;
```

*) Applies to Non-sale Report (.nls) only. **) Applies only to the German market.

2.3. SUM line

SUM line is mandatory and used by the system to detect the end of the file.

```
POS;5790001396978;;8718452478651;2021061113405917;;1634;1003785038797044;2;0;0;0;0;0;0;;0,25;1;;;;
SUM
```

The SUM line is the last line.

3. Batch Report

3.1. Header

Same format and purpose as in point 2.1

3.2. POS lines

The file has only one POS line, which is a summary of all POS lines in the Sales- and Non-sale report for the actual batch:

Position	Identifier	Description/status	Format
Field No.1:	POS	Always (Identifier for record section)	a3
Field No.2:	Batch ID	Costumer/batch label. Information from batch scanner combined with a time stamp. Alternate manual entered information and time stamp or double time stamp if batch is started form GUI without information (function can be blocked). Divider can be configured (none or underscore)	an..35
Field No.3:	Reference number	Counter who is incremented with one, for every batch. Combined with machine number	n..14
Field No.4:	User	The operator, who is using the machine (an:35)	an..35
Field No.5:	Batch time start	yyyyMMddHHmmssFF (default) Can be configured	n16
Field No.6:	Number of refundable	Articles with deposit	n1..9
Field No.7:	Number of refundable from No-read table	Articles, which were not read at the scanner module but were read at No-Read scanner. A subtotal of [Number of refundable].	n1..9
Field No.8:	Number of non-refundable	Articles which are with deposit = 0. (out of date, closed) The total number of non-refundable from the scanner module and No-Read scanner.	n1..9
Field No.9:	Number of non-refundable from No-read table	Articles that are read by the No-Read scanner, but without deposit. A subtotal of [Number of non-refundable].	n1..9
Field No.10:	EAN not readable	Articles, which were not read in the scanner module and not read by the No-Read scanner. The EAN is missing. Also known as 2000000000002 articles. A subtotal of [Number of non-refundable].	n1..9
Field No.11:	Unknown	Articles, which are read, but not known, not defined in any Pricat or SortingPricat.	n1..9
Field No.12:	Blank - default	External counter ID:count (206:xx)	an..30
Field No.13:	Number in batch	Articles in the batch.	n1..9

		A total of [Number of refundable] + [Number of non-refundable] + [Unknown].	
Field No.14:	Number in shift	Articles counted by the operator. A total of Articles counted during the same login.	n1..9
Field No.15:	Batch time end	yyyyMMddHHmmssFF (default) Can be configured	n16
Field No.16:	Reserved	Reserved	n1
Field No.17:	Batch time	TT:MM.SS	an
Field No.18:	Key ID	Machine identification (serial number)	an..27
Field No.19:	Anker Andersen ILN number	5790001396978	n13
Field No.20:	Pricat version	YYYYMMDD	n8
Field No.21:	Trash codes	1,2,3,4. If a trash code is scanned, the code or codes are written	n
Field No.22:	Blank	Reserved	n1..9
Field No.23:	Blank	Reserved	n1..9
Field No.24:	Blank	Reserved	n1..9
Field No.25:	Total deposit amount	The total amount of deposit including VAT	n..15
Field No.26:	Reserved	False when not used	an4..5

Example:

HDR;16343498;69;260;20210611;1111111111111;2222222222222;9
POS;1003785038797044;16343498;SuperUser;202106111339218;50;0;0;0;17;2;;69;0;2021061113444116;0;00:05:19;1634;5790001396978;20210611;;0;0;0;12,1;False
SUM

3.3. SUM line

Same format and purpose as in point 2.3

4. Ready file

Empty file that indicates all files are ready for download

5. Report imported as text using semicolon as separator

1. Open Excel.
2. Click on the **Data** tab.
3. In the Get External Data group, click **From Text**.
4. Double-click the text file, which you want to import in the Import Text File dialogue box.
5. Click **Import**. The Text Import Wizard will begin.
6. Select **Delimited** and click **Next**.
7. Uncheck Tab and select Semicolon.
8. Click **Next**.
9. Select all columns and choose Text as data format.
10. Click **Finish**.

Example (imported .batch file)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	HDR	16343498	69	260	20210611	1111111111111	2222222222222	9																		
2	POS	1003785038797044	16343498	SuperUser	202106111339218	50	0	0	0	17	2		69	0	2021061113444116	0	00:05:19	1634	5790001396978	20210611		0	0	0	12,1	False
3	SUM																									

Save and exit, if desired. ‘