# Data description BC II Basic Class II

6.111.98.0.01.04

Version R1



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#### 1 GENERAL

#### 1.1 Warranty

#### Utilization of software

The manufacturer and its subsidiary companies are not liable for the consequences of using this data description or that of the software discussed therein.

If not expressly specified, there is nothing in this manual that represents a license for intellectual property with regard to the operator.

The manufacturer and its subsidiary companies are not liable for problems that arise from using this product. Please note that changes to technical data of the product are subject to change without advance notice.

This data description was prepared with great care. If errors or omissions are still to be found, we would be very grateful if you could inform us.

#### 1.2 Supplementary documentation

The focus of the content of this documentation is on the description of data structures and their content.

To understand individual tables, knowledge about the corresponding scales functions and operating processes is unavoidable. These connections are described in the manuals on

#### "BCII retail scales programming instructions"

Current supplements are documented in the the release announcements of new versions of the BCII program.

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## 1.3 General modifications

Date	Description
27.04.07/moll Version 1.00	Creation date
10.08.07/moll	WinCWs adjustments
12.11.07/Moll Version 1.00 Revision 2	Switches additional Texts (label layout, receipt layout)
26.03.08/Moll Version 1.00 Revision 3	<ul><li>new attributes</li><li>description KFTF</li><li>new table FUCN</li></ul>
14.05.08/Moll Version 2 Revision 1	- 6 digits PLU number - Database 2.0 scalable with commissioning
01.08.08/Moll	- Code structure and 180 ° rotated label
12.09.08/Moll	Database version number minimal barcode hight
16.02.09/FR/ Moll	Database version number, Text use by sell by an packed

## 1.4 Changes in field names

None at the current time

Table name old field name new field name new field name

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#### 1.5 Program transparency

#### Program version BCII from 1.00

- Database version 1.00
- SxCom protocol version 8.00

#### Program version BCII from 1.10

- Database version 1.01
- SxCom protocol version 8.00

#### Program version BCII from 1.20

- Database version 2.00
- SxCom protocol version 8.00

#### Program version BCII from 1.30

- Database version 9.12
- SxCom protocol version 8.00

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#### Program version BCII from 1.40

- Database version 9.13
- SxCom protocol version 8.00

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## 1.6 Changes in the BCII database

BCII	Database version	Tables
Program		
Changes	1.00	Creation varsion
1.00 moll	1.00	Creation version
1.00 Moll 61117100100	1.01	B2LC Field <i>FRAM</i> B2SC Field <i>PRGT</i>
1.10 Moll 61117100110	1.01	B2MS UDSI FZWE FZNW eliminated B2AG RPRG (new) B2PL AISA eliminated MULA (new) FUCN (new) table B2O1 SSEN (new) KSEL (new) B2LG HIGH (max. value) B2LS HIGH (max. value)
1.20 61117100120	2.0	B2SU new PLST PNUM (max value) KLGE (max value) B2PS NDRK (max value) PMI6 (new) PMA6 (new.) Message B2CR
1.30 61117100130	9.12	COST  KEZI (eliminated)  COWE (eliminated)  COST(eliminated)  PRZI (eliminated)  COOP (eliminated)  CVAK (new)  COVO(new)  B2LG  P180 (new)  B2LC  P180 (new)  B2G1  GPCN (new)  B2LC  EHIG (min. value)  B2SC  EHIG (min. value)

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1.40	9.13	B2LG
		B2LC
		ATPO (new)
		ATUB (new)

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## 2 Programs

#### 2.1 Communication programs

SWCom is for transmitting data and messages between a computer or several decentralized subsystems (SC/SW-scales, BCII or GX-price labeler).

There are two program versions available

#### Process control via command line (SWCMAN)

Transmission is started from the computer by accessing the SWCMAN program. The information required for process control is transferred as parameters to the command line when the program is started. Only one file per command can be transmitted.

This version is recommended for realizing customer-specific solutions.

#### Process control via a batch interpreter (SWC\_BAT)

This version is especially used in the CWS and SWDasi application programs and is only available for the DOS and WIN9X/NT operating systems.

Transmission parameters, such as communication definitions, addressed subsystem type, repeat parameters, modem type and transmission commands are transferred via a "USER file" to the program.

Even in the definition or modification of the "USER" command, a check is carried out via a rule file to see if the specified command can be executed on the subsystem. If the corresponding definition is available in the rule file, it is possible to use a command in the application file to start a command sequence in the rule file. This command sequence is executed when the transmission program is started in single commands, depending on error conditions. The repeat parameters can be set to determine how often individual data records are sent or received before a timeout error is produced, or how often the connection should be reestablished after a timeout error or after connection interruption (in modem connections). When the connection has been reestablished, the last processed command is reprocessed or an attempt is made to continue the transmission of the last transmitted data record.

In one program call, several transmission commands can be executed and several fields transferred.

#### 2.2 Help program

#### SWU: SW file editor (DOS and UNIX operating systems)

The SSU program (System Scales Utility) is an editor for specially-formatted SC/SW data files.

With the SWU, SC/SW data files can be viewed, edited and supplemented.

Syntax: SWU <SC/SW/BCII data file>

Keyboard input:

Arrow up
Arrow down
Arrow up
Moves the section of the window up
Moves the section of the window down
Moves the cursor towards the start of the file
Arrow down
Moves the cursor towards the end of the file
Transfers to edit mode for the current record.

If the cursor is on EOF (end of file), a new record is attached unless editing is cancelled by pressing ESC.

Ing.del. Ends the program

#### ASCII conversion to SWASCII

The conversion program, SWASCII offers a freely programmable conversion from SW/SC/BCII-files to user-defined text files and back.

The description of the text file provided by the user is included in a so-called info file with an "if" file extension.

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## 3 File description

#### 3.1 HDLC- File structure

conversion of HEX data.

The useful data is stored in sets in a HEX file. Alongside the actual useful data, this file also contains additional information which is of absolute necessity for conversion into other formats and for further processing by the application. When a file transfer begins, the scales transmit the field identifiers belonging to the BCII/SC/SW database table. Based on this information, SWCom finds out the maximum length of a table. The actual length of a database entry is determined by the length of a variable character string in the last field, if available. The actual length is inserted into the file before each record. Deselected numeric fields within a table are filled up to their maximum length with 0 hex; deselected alphanumeric fields are filled with empty spaces. In addition, conversion from INTEGER data types to MOTOROLA into the INTEL data format take place (BYTE reversal). The field identifiers included in the confirmation telegrams of the scales can only be used to calculate the maximum useful data length and for INTEL-MOTOROLA

Type definition **TYdbmAtt** in the field identifier (BIZERBA format, from SC-SW version 2.50):

Length	Data type	Description	Comment
4	char[4]	att_symbol	Attribute identifier icon
2	Short	ges_stellen	Number of digits
8	TYint64	minWert	smallest value
8	TYint64	maxWert	largest value
1	Uchar	typ	Attribute type
1	Uchar	key	Key attribute? yes/no
1	Uchar	option	Attribute selected? yes/no
1	Uchar	ptr_on_val	Internal value for SW scales

#### **Explanations:**

att\_symbol: The 4-digit field name uniquely identifies a specific attribute in the

conversion of data from SC/SW files into the SC/SW database.

Only use capital letters in the field names.

ges\_stellen: minWert: maxWert: In describing a table, it is possible to select wither the number of digits or with the minimum and maximum value

```
ges_digits > 0:
```

Specifies the maximum value of a whole number. The storage size of a field is determined from this value :

The components, 'minValue' and 'maxValue', are not taken into consideration.

```
ges stellen <= 0:
```

To describe the attribute values, the fields 'minValue' and 'maxValue' are used. They are only valid for selected attributes (option = 1), deselected attributes (option = 0) are assigned with 0 Hex. The following table specifies how the components 'minValue' and 'maxValue' are interpreted in relation to attribute type:

Attribute type	minValue	maxValue
STRING		maximum string length
VARSTR		maximum string length
DATUM		
GEWICHT	smallest value	largest value
GELD	smallest value	largest value
INTEGER	smallest value	largest value
INTBFDB	minimum number of bits	maximum number of bits
INTBFHX	minimum number of bits	maximum number of bits
INTBFEX	minimum number of bits	maximum number of bits
VARDATA		maximum data length
STRUCT		maximum data length

Attributes with INTBFDB and INTBFHX bit field types are configured with the number of bits they are supposed to contain, while attributes of type INTBFEX are configured with the largest and smallest converted numeric value.

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typ: 1: STRING (character string)

2: VARSTR (character string)

3: DATUM (long)

4: GEWICHT (Not used currently) 5: GELD (short, long, int64:

depending on maximum)

6: INTEGER (short, long, int64:

depending on maximum)

Integer bit field in the SC/SW database 7: INTBFDB

(only for internal use)

8: INTBFEX Integer bit field for external applications

(expanded bit field)

9: VARDATA Memory excerpt from the BCII/SC/SW database

(only used for data backup)

In comparison to VARSTR '\0' bytes can be included in the data. There is no fixed structure. The data is represented in the BCII/SC/SW data format. The size of a VARDAA value is fixed in the first two bytes of the value as a short integer (MOTOROLA format). These two

bytes are not counted with respect to size.

Integer bit field for external applications 10: INTBFHX

(non-expanded bit field)

11: STRUCT User-specific data format:

| len | typ | data | :

len: [short]

Length of useful data in bytes incl.

type and excluding

type: [short]

Structure type of useful data:

0: char array 1: short array

2: long array

INT64 array 3:

> 3: special user structures

data: useful data

Specifies whether or not an attribute is a key attribute. key:

0 = no key attribute

1 = key attribute

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#### option:

specifies whether an attribute is selected (configured). Data from a deselected attribute is filled with a 0 hex for the remaining complete length. This ensures that during transmission and in the file, useful data is always processed at its maximum length. The fields, minValue and maxValue are no longer significant in deselected

0 = Attribute is not selected 1 = Attribute is selected

All further preparation of the files for sending and receipt is accomplished by application programs, such as BIZERBA, CWS, BLD, BSD.

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## 3.1.1 File frame

Description of fields	Data type
·	Data type
Length of header data (in bytes)	ushort
BCII/SC/SW-table name	char[14] ASCII
Target system version	unsigned short
Revision of target system	unsigned short
Date/time target system from 1.1.70	long
Target system program number	char[12] ASCII
Customer name	char[80] ASCII
Special program name	char[40] ASCII
Version SWCom	unsigned short
Revision SWCom	unsigned short
Date/time SWCom from 1.1.70	long
SWCom program number	char[12] ASCII
Parameter field	uchar[80] ASCII
Reserve	char[80] ASCII
Number of target system	unsigned short
Length of field identifier	unsigned short
Field identifier	TYdbmAtt[100] **
Data block length	unsigned short
Number of data blocks	unsigned long

Comment: TYdbmAtt (length is 26 bytes)

#### 3.1.2 Useful data

Useful data (n data records):

Record length 1	ushort
Record 1	
Record length N	ushort
Record N	

#### **Explanations:**

#### File frame:

Data block length: maximum length of a structure

Number of data blocks: Number of records in BCII/SC/SW file:

> 0: The user updates the

"Number of data blocks".

= 0: SWCom searches the SW-file to determine the

"Number of data blocks".

#### Useful data:

**Record length:** effective length of a structure (incl. record length).

The length of the header data is:

2946 bytes

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## 3.2 HDLC record structure

The HDLC set structure is **not** supported. BCII is basically compatible with SC-TCP.

#### 3.3 ScLSV1, ScTCP, and ScXML record structure

Table: PLST			glo	bal table	Numb	er of attri	butes: 39	
Description	on: PLU	master	data					
				 			Number of fiel	.ds
					scales-	_		
	 			global	: valid	through	out the system	1
		Т	able name					
	Field	descri	ption					
Descript	ion	1	ī				T	
Desc.	KEY	ОРТ	MinValue	MaxValue	Offs	Laen	Data type	
delete fla	 1.g	1						
WALO	KEY	FIX	0	1	0	2	INTEGER	
D	17.037	0.00	M ' - 77 - 7	M 77 - 7	0.5.5	T	In. t	
Desc.	KEY	OPT	MinValue	MaxValue	Offs	Laen	Data type	
       							Attribute ty all data typ are represen ASCII format INTBFDB Fiel	es nted

are omitted |- Field length (in data types STRING and VARSTR length is reduced by 1 byte, numerical fields do not have a leading zero) |---- Offset (no meaning here) ----- Maximum value ----- Minimum value Attribute can be configured OPT: configurable FIX: available and fixed EXP: expanded bit field (=FIX) Key attribute (all KEY attributes have to be available in the data record, the order is arbitrary) Attribute icon (= field name in capital letters)

A data record constitutes three components:

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Table name	Control part		Useful data[n]				
char[6]	char	char	char[2]	char	char[4]	char[m]	char
					r	n Fields	
NAME	ESC	SH	TARGET	ESC	NAME	WERT	ESC
		N					

m: any length of character field
n: there is no fixed order of
useful data fields
l | Target address == 0: Global Data
(Scale number) > 0: local data
Command: additional explanations,
see "SWLSV1 protocol description"

## 3.3.1 Example of a dialog

Host sends VAT master data to the scales:

## **Host request:**

#### Table name:

Name	Information	
	separator	
char[6]	char	
MWST	ESC	

## **Control part:**

Command	Target address	Information
		separator
char	char[2]	char
S	0.0	ESC

## Useful data:

## 1. Field

Field name	Value	Information
		separator
char[4]	char	char
WALO	0	ESC

## 2. Field

Field name	Value	Information
		separator
char[4]	char	char
MWNU	1	ESC

#### 3. Field

Field name	Value	Information
		separator
char[4]	char[4]	char
MWST	1500	ESC

#### 4. Field

Field name	Value	Information separator
char[4]	char	char
MWWI	0	ESC

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#### 5. Field

Field name	Value	Information
		separator
Char[4]	char[20]	char
MWTE	MEHRWERTSTEUER_1	ESC

#### SW confirmation:

#### Table name:

Name	Information	
	separator	
Char[6]	char	
MWST	ESC	

#### **Control part:**

Command	Target address	Information
		separator
Char	char[2]	char
S	00	ESC

#### **Useful data:**

Field name	Value	Information
		separator
Char[4]	char	char
QUIT	0	ESC

#### SCLSV1:

The ScLSV1 protocol and serial transmission is **not** supported.

#### ScTCP:

In ScTCP an end identifier is attached to the end of each data record ("BLK <ESC>" a block counter is also possible as field content).

"MWST <ESC>S00<ESC>WALOO<ESC>MWNU1<ESC>MWST1500<ESC>MWWI0<ESC>MWTEMEHRWERTSTEUER\_1<ESC>BLK <ESC>"
"MWST <ESC>s00<ESC>QUIT0<ESC> BLK 0<ESC>"

#### ScXML:

Within the data records ( $\langle sx\_r \rangle$ ), the data representation can be the same as in ScLSV1. If the table name and the control part in the header ( $\langle sx\_header \rangle$ ) of the ScXML file is available, the respective data records only contain the useful data of the data record.

#### Example 1:

```
...
<sx_data>
<sx_r>MWST <ESC>S00<ESC>WALO0<ESC>MWNU1<ESC>MWST1500<ESC>MWWI
0<ESC>MWTEMEHRWERTSTEUER_1<ESC></sx_r>
</sx_data>
```

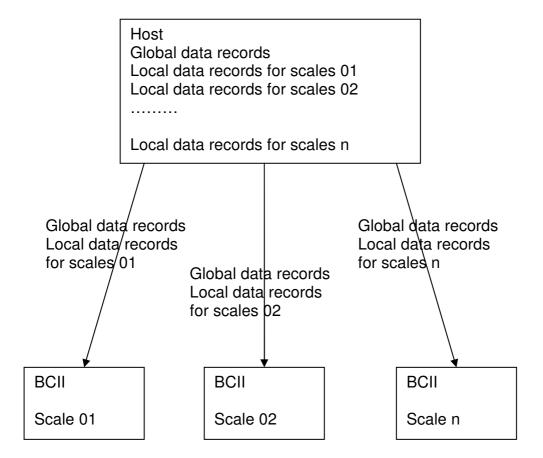
#### Example 2:

The ScXML file format can be used within the host interface.

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#### 3.4 Topology

The BCII is **not** a master scale. Data is **not** distributed by a BCII scales! If the data should be distributed across several BCII, this distribution must be executed by setting up successive connections from the host interface to the scales of the host interface itself.



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## 4 Data record description

The descriptions "global table" and "local table" in this context relate to the addressing of the scales when data is transmitted and is not related to how memory is organized in the scales.

Tables beginning with B2 are only found in BCII. The other tables form subsets of the SC tables.

Address: 0 = global table

1 - 99 = Local table

## 4.1 Table overview in BCII

ATST	global table	General text master data
COST	global table	Barcode structure
B2G1	global table	global settings 1
B2LG	global table	Label configurations
ETST	global table	Labels (BLD)
FOST	global table	Forms (BLD)
KFST	global table	Header/footer text master data
LOST	global table	Logos (BLD)
PLST	global table	PLU master data
FUGL	global table	Operator
		Key assignment
B2AG	Local table	General operating settings
B2MS	Local table	Settings for multiple operators
B2PL	Local table	Settings for price labeling
B2LC	Local table	Label layout configuration
B2SC	Local table	Ticket layout configuration
B2PS	Local table	PLU settings
FUCO FUCN	Local table	Direct PLU key assignment
		Direct tare
		Key assignment
B2FC	Local table	Foreign currency settings
B2NP	Local table	Non-PLU settings
B2O1	Local table	Further settings
KFTF	Local table	Keyboard layout
PROG	Message	Program version
"UHR "	Message	Set time
WARE	Message	Scales reference

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#### 5 Master data

## 5.1 ATST gen. Texts master data

Table : ATST	global table	Number of attributes: 3

Description: General texts master data

Description					
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag					
WALO	KEY	FIX	0	1	INTEGER
General text number					
ATNU	KEY	FIX	1	999999999	INTEGER
General text					
ATTE	-	FIX	0	1501	VARSTR

## **Explanations:**

General texts are texts listing ingredients or recipes to supplement a product. Similarly, additional texts for sell-by date or rounding etc.

WALO: delete flag:

0 = Data record is being modified or recreated

1 = Data record is deleted

ATNU: General text number

ATTE General text.

The text has to be UTF8 coded!!

Within the text, the font number is supplied via ^; Change font. New line

via '\n'.

#### 5.2 B2G1 global settings

Table: B2G1	global table	Number of attributes: 5
-------------	--------------	-------------------------

Description: global settings

Description					
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag					
WALO	KEY	FIX	0	1	INTEGER
Rounding methods for customer total					
RTMO	-	OPT	0	9	INTEGER
Rounding					
RAMO	-	OPT	0	9	INTEGER
Second currency (€) factor					
SCFM	-	OPT	0	3	INTEGER
Second currency € rate					
SCCA	-	OPT	0	999999	INTEGER
Global code structure number					
GBCN	_	OPT	0	99	INTEGER

#### WALO: delete flag:

0 = Data record is being modified or recreated

1= Data record is initialised with standard values

## RTMO: Rounding methods for customer total Rounding methods for customer total

- 0 no rounding
- 1 Rounding to 5
- 2 Rounding to 10
- 3 Rounding to 50
- 4 Rounding to 100
- **5** mathematical rounding to 5
- 6 mathematical rounding to 10
- 7 mathematical rounding to 25
- 8 mathematical rounding to 50
- 9 mathematical rounding to 100

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#### RAMO: Rounding of product total Rounding of product total

**0 no** rounding

1 Rounding to 5

2 Rounding to 10

3 Rounding to 50

4 Rounding to 100

**5** mathematical rounding to 5

6 mathematical rounding to 10

7 mathematical rounding to 25

8 mathematical rounding to 50

9 mathematical rounding to 100

The second currency is only active for non-€ scales. The functions are for countries that are still in the € transition period.

#### SCFM: Second currency (€) factor

0...3 = factor 1...1000

Example

ZW = second currency (€) NW = National currency SCCA input = 1955.83

SCFM = 3

=> 1000 ZW (€) = 1955.83 NW

#### SCCA: Second currency (€) calculation rate

e.g. 195583

results in 1955.83 in the national currency

#### **GBCN**: Globale code structure number

**00** for PLUS' take code struct number fromECO1 field **01..99** take for all PLUS the same number 1 to 99

## 5.3 B2LG label configuration for BCII

global table Number of attributes, 20	Table: B2LG glo	bal table Number	of attributes: 20
---------------------------------------	-----------------	------------------	-------------------

Description: Label configurations for BCII

Descript	ion				]		
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type		
delete flag							
WALO	KEY	FIX	0	1	INTEGER		
Configura	tion nur	nber		<u> </u>			
STNR	KEY	FIX	1	3	INTEGER		
Predefine	d label	layout		•			
ALID	ı	OPT	0	99	INTEGER		
BLD label	layout						
BLDI	-	OPT	0	99	INTEGER		
Label heig	ght						
HIGH	-	OPT	28	148	INTEGER		
Label dist	ance						
PGAP	-	OPT	8	40	INTEGER		
Text sell-b	oy date						
PSBD	-	OPT	0	2	INTBFHX		
EAN – Co	de						
EANC	-	OPT	0	2	INTBFHX		
EAN code	height		<b>.</b>				
EHIG	-	OPT	5	22	INTEGER		
Tare print	out		<b>,</b>				
TARE	-	OPT	0	1	INTBFHX		
Header te	xt printe		<b>.</b>				
HEAD	-	OPT	0	99	INTEGER		
Additional	text for		date				
SBDT	-	OPT	0	999999999	INTEGER		
Header lo	go	Ī					
LOGO	-	OPT	0	9999	INTEGER		
Start of te			<u> </u>	<b>T</b>			
TFBE		OPT	0	84	INTEGER		
Start of da	ata field			<b>T</b>			
DFBE	-	OPT	0	84	INTEGER		
Data field	monito		ı				
DFIC	-	OPT	0	1	INTBFHX		
Text form	at for te						
TLAY	-	OPT	0	110	INTEGER		
Price rang			Г		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
FRAM	-	OPT	0	7	INTBFHX		

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Operator, device- or digi code					
SDDI	-	OPT	0	3	INTEGER
Print forei					
FCSE	-	OPT	0	4	INTEGER
label 180					
P180	-	OPT	0	1	INTBFHX
Text pack	ed on				
ATPO	-	OPT	0	99999999	INTEGER
Text use					
ATUB	-	OPT	0	99999999	INTEGER

#### **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated

1 = Data record is deleted

STNR: Label configuration number:

3 label configurations can be stored under the label configuration number and imported.

Compare label configuration administration in the programming instructions.

ALID: Label type

0 Label from BLD. See ALID

1.. 99 predefined label.

There are pre-defined label layouts in the device. If you are working with BLD (Bizerba Label Designer) you can select freely-definable. Pre-defined labels have a text and a data area. The text area contains text, e.g. the product text. The data area contains data on the product, weight, sales price sum EAN code, etc. Text and data field areas can be adjusted. No difference is made between text and data field range on BLD labels.

BLDI: BLD label layout :

1..99 Select BLD label layout (ALID has to be 0)

HIGH: Label height:

28..148 mm 54 and 55 mm are not permitted

PGAP: Label distance:

8...40 Dots (8 Dots = 1 mm)

#### PSBD: Packaged-on and sell-by date:

Bit field

#### **EANC:** EAN code print-out on label:

Bit field

#### EHIG: EAN code height:

5..22 mm

#### TARE: Tare printout:

Bit field

```
Bit no.:
0
|
1 -Tare is printed
```

#### **HEAD:** Header text printout:

0 without header text

1..99 Number of the header text to be printed (Text from KFST)

#### SBDT: Text for sellby:

0 standard text

1..99999999 Number of text to be printed

#### LOGO: Logo print-out in header row:

0 without header logo

1..9999 Number of the header logo to be printed

#### TFBE: Start of text field:

0..84

Predefined labels are separated into a text and a data field area. The text field contains the product text. The text field can be adjusted up or down in the label:

0: The text field begins right after the label header.

1..84: The text field is adjusted downwards in mm.

(0 position starts after the label header)

In BLD labels there is no subdivision of this type.

5-6

#### DFBE: Start of data field:

0..84

Predefined labels are separated into a text and a data field area. The data field contains product data, including unit price, weight, selling price, total, EAN code, etc. The data field can be adjusted up or down in the label.

0: The data field is moved to the end of the label.

1..84: The data field is always adjusted downwards in mm.

(0 position starts after the label header)

In BLD labels there is no subdivision of this type.

#### **DFIC:** Data field monitoring on/off:

#### Bit field

```
Bit no.:
0
|
1 - Data field monitoring is on
```

When data field monitoring is activated, this prevents texts from the text field being written to the data field.

Text is cut-off on the label.

In the case of labels on tickets, the print-out is simply extended. If monitoring is deactivated, texts from the text field might continue into the data field.

#### **TLAY:** Text format for product texts:

0 The texts are represented according to the formatting in the PLU text or in line with the text sizes provided in the layout.

1..110 Select a defined font for text.

#### FRAM: Price range and texts

```
Bit field
Bit no.:
5
   4
      3
                 0
          2
             1
1-Print price range
      1----Print "price"
          1-----Print "net" or "item"
      1-----Print "sell by"
   1-----Print. "packed"
1-----Print "tare"
Bit no.:
                 6
```

1-Print. Additional text

from ATST

## SDDI: Operator no., machine parameter check digit on label

0 without output

1 with operator no.

2 with key machine figure

3 with digit code

The label contains a field intended for output. The selected number is inserted into the field.

## FCSE: Foreign currency

#### P180: rotate label 180°

0: no rotation
1: rotation

#### ATPO: Text packed on

0 Standard Text

1..99999999 number of text to be printed

#### ATUB: Text use by

0 Standard text

1..99999999 number of text to be printed

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#### 5.4 COST Barcode data

Table: COST global table Number of attributes
---

Description:	Barcode data

Beschre	ibung				
Bez.	KEY	ОРТ	MinWert	MaxWert	Datentyp
Delete fla	ng .	•			
WALO	KEY	FIX	0	1	INTEGER
Codestrut	c numb	er			
COSN	KEY	FIX	1	99	INTEGER
Code buil	d struct	ure acti	ve		
CVAK	-	FIX	0	1	INTBFEX
Code buil	d struct	ure			
COVO	-	FIX	0	501	VARSTR

# **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated

1 = Data record is deleted

COSN: code structure-number

01 .. 99

CVAK: Code-build structure active:

0 = not active 1 = active

**BCII** only allows active!

The old creation of code structures isn't supported anymore

COVO: Code build structure

# 5.5 ETST Labels

Table: ETST	global table	Number of attributes: 11
-------------	--------------	--------------------------

Description: Labels

Descript	ion				
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag	9			•	
WALO	KEY	FIX	0	1	INTEGER
Label nun	nber				
ETNU	KEY	FIX	1	99	INTEGER
Form num	nber				
FONU	-	FIX	1	99	INTEGER
Left coord	linate				
LEFT	-	FIX	0	16	INTBFHX
Upper cod	ordinate	!			
TOP	-	FIX	0	16	INTBFHX
Right cool	rdinate				
RGHT	-	FIX	0	16	INTBFHX
Lower cod	ordinate				
BOTT	-	FIX	0	16	INTBFHX
Distance					
ETAB	-	FIX	7	75	INTEGER
Label wic	lth				
ETBR	-	FIX	0	16	INTBFHX
Decorative	e labels	-offset			
ETVS	-	FIX	0	16	INTBFHX
Label text			,		
ETTE	-	FIX	0	21	STRING

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# **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated

1 = Data record is deleted

This table is only for internal use (data backup of BLD and BIZERBA store management)!

ETST is not implemented in BCII Version 1.00

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# 5.6 FOST Forms

Table: FOST	global table	Number of attributes: 12
-------------	--------------	--------------------------

Description: Forms

Descript	ion				
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag	9		1	1	
WALO	KEY	FIX	0	1	INTEGER
Form nur	nber				
FONU	KEY	FIX	1	99	INTEGER
Field num	ber				
FENU	KEY	FIX	1	99	INTEGER
Content &	type				
INTY	-	FIX	0	32	INTBFHX
Left coord	dinate				
LEFT	-	FIX	0	16	INTBFHX
Upper co	ordinate			T	
TOP	-	FIX	0	16	INTBFHX
Right cod	ordinate			T	
RGHT	-	FIX	0	16	INTBFHX
Lower co	ordinate			T	
BOTT	-	FIX	0	16	INTBFHX
Size			1	<u></u>	
GRSS	-	FIX	-1	100	INTEGER
Font				T	
FONT	-	FIX	0	16	INTBFHX
Field attrib	bute			T	
FEAT	-	FIX	0	32	INTBFHX
Fixed text				T	
FIXT	-	FIX	0	501	VARSTR

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# **Explanations:**

**WALO:** delete flag:

0 = Data record is being modified or recreated

1 = Data record is deleted

This table is only for internal use (BLD and BIZERBA store management)! FOST is not implemented in BCII Version 1.00

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#### 5.7 KFST Header/footer text master data

Table: KFST gl	lobal table	Number of attributes: 3
----------------	-------------	-------------------------

Description: Header/footer text master data

Descript	ion			T	
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag	9				
WALO	KEY	FIX	0	1	INTEGER
Header/f	ooter te	xt numb	per		
KFNU	KEY	FIX	1	99	INTEGER
Text for h	eader/fo	ooter ro	W		
KFTE	-	FIX	0	501	VARSTR

#### **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated

1 = Data record is deleted

KFNU: Header/footer row number

KFTE: Header/footer text.

The text has to be UTF8 coded!!

New line via '\n'.

List of supported formatting sequences:

^ number; font size,

Value range: ^1; ... ^110;

Non-defined formatting sequences are output as text.

Macros: -

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## 5.8 LOST Logos

Table: LOST	global table	Number of attributes: 4

Description : Logos

Descript	ion				
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag	9			•	
WALO	KEY	FIX	0	1	INTEGER
Logo num	nber				
LOGN	KEY	FIX	1	9999	INTEGER
Logo reco	ord num	ber			
LOSA	KEY	FIX	0	9999	INTEGER
Logo data	1	•			
LODT	-	FIX	0	504	VARDAT

# **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated

1 = Data record is deleted

This table is only for internal use (BLD and BIZERBA store management)! LOST is not implemented in BCII Version 1.00

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# 5.9 PLST PLU master data

Table: PLST global table Number of attributes: 16
---

Description: PLU master data

Descript	ion			T	
Desc.	KEY	OPT	MinValue	MaxValue	Data type
delete flag	9		1	•	
WALO	KEY	FIX	0	1	INTEGER
PLU num	ber				
PNUM	KEY	FIX	1	999999	INTEGER
Unit price	9 1				
GPR1	-	FIX	0	999999	GELD
Product g	group				
WGNU	-	FIX	1	9999	INTEGER
Tare valu	ie weigł	nt			
TARE	-	OPT	0	9999	INTEGER
Shelf-life	1				
HBA1	-	OPT	0	999	INTEGER
EAN cod	e				
ECO1	-	OPT	0	14	VARSTR
General	text nun	nber			
ALT1	-	OPT	0	99999999	INTEGER
General	text nun	nber			
ALT2	-	OPT	0	99999999	INTEGER
General text number					
ALT3	-	OPT	0	99999999	INTEGER
General	text nun	nber	<b>,</b>		
ALT4	-	OPT	0	99999999	INTEGER

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Price ove	erwrite				
PREU	-	EXP	0	1	INTBFEX
PLU clas	s				
KLAR	-	EXP	0	14	INTBFEX
Weight c	lass				
KLGE	-	EXP	0	6	INTBFEX
Data of o	rigin				
HKDR	-	EXP	0	2	INTBFEX
Text field	numbei	rs			
TFZU	-	OPT	0	44	STRUCT
Logo num	nbers				
LFZU	-	OPT	0	10	STRUCT
Product to	ext				
PLTE	-	FIX	0	501	VARSTR

# **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated

1 = Data record is deleted

PNUM: PLU number

1..999999

GPR1: Unit price 1

0.999999

**WGNU:** Product group number

1..9999

TARA: Tare value

0..9999

Datum 1 Packaged date is current date

Datum 2 Sell-by date is formed from the packaged date + shelf-life days 1

Print after "sell by" text.

HBA1: Shelf life days 1

0..999

ECO1: EAN code [0...13]:

eco1[0] describes the code type:

0 = Instore code

1 = manufacture code WAN 13

#### Typ 0 - Instore code

eco1[1..2]: Code structure (see table COST)

eco1[3..6]: Code content

if the code content == XXXX is available:

eco1[3..6]:Value is XXXX

otherwise:

eco1[3..12]:no meaning

eco1[7..12]: are only filled with zeros. eco1[13]: Zero (string-end character)

Example: ECO1 = 00112340000000

means:

Instore code with code structure 01 and code content 1234.

The code structure can include:

Code digit 24, code content XXXX (freely assignable), with check digit (C), price coding (PPPPP).

In this case the following code is produced:

241234CPPPPPC

#### Type 1 - manufacturer code EAN 13:

eco1[1..12]: Code content without check digit.

All 12 digits must be entered, including any possible

zeros.

Example: ECO1 = 1901234567890

produces the code:

901234567890C

#### ALT1: General text:

The general text is a text in addition to the product text, e.g. for recipes, ingredients, etc. This additional text can be assigned to different products by entering the text no.

= 0: without additional text

> 0: Reference to ATST table

ALT4:

PREU: Price overwrite permitted

0=no, 1 = yes

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## KLAR: Product type: G/H/M

G	Weighed	=0	
Η	Manual		=1
M	Minus	= 2	
Н	Manual		=3
G	Weighed	=4	
Н	Manual		=5
Н	Manual		=6
G	Weighed	=7	
G	Weighed	=8	
G	Weighed	=9	
G	Weighed	=10	
Н	Manual		=11
Н	Manual		=12
Н	Manual		=13
Н	Manual		=14

# KLGE: Weight class

0 = 1 kg

1 = 100 g

2 = lib

 $3 = \frac{1}{4} \text{ lib}$ 

4 = ½ lib not supported (=> error message)

5 = x lb x in STPA not supported (=> error message)

6 = 500g

Attention: Supported weight classes depend on country versions.

The scale supports one or two scale classes:

Examples: 1 kg and 100g or kg and 500g, or only kg!

# HKDR: Data of origin

0 = none

1 = with data of origin

2 = with data of origin

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#### **TFZU:** Text field allocation:

Allocation of text numbers to the related text fields. If freely-programmable labels are an option, a maximum of 10 general text numbers can be assigned to the "data" structure component in TYvarDataTFZU.

# Important: gaps between the numbers may not occur , i.e. fields must be consecutively filled with data.

If no freely programmable labels are possible, the TYvarDataTFZU structure must be preassigned with 0.

```
typedef struct
{
    short len;
    short varTyp; /* 4 = VARTFZU */
    long daten [10];
} TYvarDataTFZU;
```

### **LFZU:** Logo field assignment

Allocation of logo numbers to the related logo fields. If freely-programmable labels are an option, maximum of 3 logo numbers can be assigned to the "data" structure component in TYvarDataLFZU.

# Important: gaps between the numbers may not occur , i.e. fields must be consecutively filled with data.

If no freely programmable labels are possible, the TYvarDataLFZU structure must be preassigned with 0.

```
typedef struct
{
    short len;
    short varTyp; /* 5 = VARLFZU */
    short daten [3];
} TYvarDataLFZU;
```

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#### PLTE: Product text

The product text can constitute several paragraphs and lines.

#### Line:

Character string that can be printed in a print row.

#### Paragraph:

Character string from one or multiple print rows, which are limited by the formatting character \n (= 0A Hexadecimal or LF).

A text field can contain a maximum of:

500 bytes of data memory,

**texts are UTF8 coded**, the memory requirement in the bytes of a character is a result of converting the unicode of the character into the UTF8 format. Unicode characters < 0x80 (ASCII Code) only need 1 byte of memory

#### List of supported formatting sequences:

^ number; font size,

Value range: ^1; ... ^110;

Non-defined formatting sequences are output as text.

#### 5.10 FUGL operator key arrangement

Table: FUGL	global table	Number of attributes: 4

Description: Global keyboard function assignment (only operator keys)

Description					
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag	9				
WALO	KEY	FIX	0	1	INTEGER
Keys-fun	Keys-function code				
TSFC	KEY	FIX	-32768	32767	INTEGER
Key data					
TSDA	-	FIX	0	32	INTBFHX

#### **Explanations:**

This table is primarily used to assign numerical fixed keys that are used across all scales.

At the current time only the following applications are available:

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# Operator keys

WALO: delete flag:

0 = Data record is being modified or recreated 1 = Data record is deleted

TSFC: Keyboard codes:

**Direct operator keys KEYB\_DBT\_x (x := operator number)** 

KEYB_DBT_1	0x8100	33024
KEYB_DBT_2	0x8101	33025
KEYB_DBT_3	0x8102	33026
KEYB DBT 16	0x8102	33039

Key value. TSDA:

here: operator no.:

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# 6 Configuration data

# 6.1 B2AG general operational procedure

Table: B2AG	Local table	Number of attributes: 14
-------------	-------------	--------------------------

Description: Settings general operational procedure settings

Description					
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag	7				
WALO	KEY	FIX	0	1	INTEGER
Select par	per type	,			
AAPT	ı	OPT	0	1	INTEGER
Select ma	in appli	cation			
MAID	ı	OPT	1	6	INTEGER
	ication i	layout (	ticket or label)		
MULL	-	OPT	0	1	INTBFHX
Main appl	ication -	- with/w	ithout addition o	f customer sum	
MACT		OPT	0	1	INTBFHX
Select alte	ernative	(toggle	e) application		
TAID	-	OPT	1	6	INTEGER
Alternative	e (toggl		cation layout (tic	ket or label)	
TULL	-	OPT	0	1	INTBFHX
			cation - with/with	out addition of	
the custor	ner tota		1	T	
TACT		OPT	0	1	INTBFHX
Automatic	reset			T	
ANST		OPT	0	2	INTEGER
Open tick	ets /lab			T	
OSSM		OPT	0	2	INTEGER
Beef laber	ling				
BFTM		OPT	0	2	INTEGER
	abbrev		aceability number	er	
BTAN		OPT	0	99	INTEGER
PLU display time until input of abbreviated number					
BTDT		OPT	1	99	INTEGER
Negative i	totals ai				
NTIA	-	OPT	0	1	INTBFHX
Call mode	quick s				
RPRG	-	OPT	0	1	INTBFHX

#### **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated1 = Data record is initialised with standard values

AAPT: Select paper type

0 Receipt paper1 label paper

It is not possible to select label paper in the ticket printer

#### MAID: Select main operating mode

1 multiple operator mode. Several operators can register at the scales at the same time.

2 self-service sales SB operation

3 Quick service sales

4 Price labeling with manual triggering

5 price labeling with automatic start

6 Multiple label printing

#### MULL: Main operating mode: Select layout

0 Ticket layout1 Label layout

If label paper (see AAPT) is set, a TICKET layout is not possible. The ticket or label layout is not available for all operation modes.

#### MACT: Main operating mode: With addition of customer total

0 without addition of customer total 1 with addition of customer total

You can define two operating modes in the device: a main mode and an alternative (toggle)

operating mode. You can switch between the operating modes via pressing the *Shift-ESC* 

keys. Therefore, it is possible to have multiple operators in the main operating mode, for example and

during breaks in selling, change quickly to price labeling in order to handle prepackages.

# TAID: Select alternative (toggle) operating mode

- 1 multiple operator mode. Several operators can register at the scales at the same time.
- 2 self-service sales SB operation
- 3 Quick service sales
- 4 Price labeling with manual triggering
- 5 price labeling with automatic start
- 6 Multiple label printing

TULL: Alternative (toggle) operating mode: Select layout

0 Ticket layout1 Label layout

If label paper (see AAPT) is set, a TICKET layout is not possible. The ticket or label layout is not available for all operation modes.

TACT: Alternative (toggle) operating mode: With addition of customer total

0 without addition of customer total 1 with addition of customer total

ANST: Automatic reset

0 The scales are reset if within the limit for automatic resetting,

1 Reset error 115 is displayed

2 Scale is not reset

OSSM: Open tickets /labels after scale on/off

0 Open tickets are printed out after scale off/on1 Open tickets are not printed out and deleted

2 open tickets are not printed but are deleted

BFTM: Beef labeling

0 Identification is off

1 Input traceability no. manually

2 Select automatic traceability no.

When input is made manually, the operator has to enter a traceability number for traceability plus

.

In addition to the product text, a traceability text is output from the PLU 9900 + traceability number.

BTAN: Automatic traceability no.

00..99 rigidly defined traceability no.

In the case of PLUs for which traceability data is scheduled,

a traceability text from PLU

PLU 9900 + traceability number is output in addition to the product text.

BTDT: PLU display time until input of traceability no

1..99 (1 short time, 99 long time)

Only active with manual input of traceability number.

NTIA: Negative total

0 Negative total is not permitted1 negative total is permitted

RPRG: Call mode quick service

0 price call without registration1 price call with registration

# 6.2 B2MS Multiple operator sales

Table: B2MS	Local table	Number of attributes: 12

Description: Settings for multiple operator sales

Descript	Description					
Desc.	KEY	OPT	MinValue	MaxValue	Data type	
delete flag	9			1		
WALO	KEY	FIX	0	1	INTEGER	
Constant	key fun	ction				
COKM		OPT	0	2	INTEGER	
Print prod	luct and	l total la	bel			
PTLM		OPT	0	2	INTEGER	
Item oper	ator dis	play mo	ode			
SPOP		OPT	0	2	INTBFHX	
Till function	on					
RGFN		OPT	0	4	INTEGER	
Payment	in/out					
CIOM		OPT	0	2	INTEGER	
Talon prin	tout de	lay time				
TADT		OPT	0	99	INTEGER	
	Repeat ticket					
SPIE		OPT	0	1	INTBFHX	
Re-open t	ticket					
SRIE		OPT	0	1	INTBFHX	

#### **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated 1= Data record is initialised with standard values

COKM: Constant key function

0 Fix unit price1 Set tare value

2 set unit price and tare value

PTLM: Print product and total label

0 Print product and total label

1 Only print total label2 Only print product label

#### SPOP: Item operator display mode

Bit field Bit no.:

2 1 0 | 1---- Display for total/subtotal | 1---- Display after registration

1----- Display for sheet cancellation

### **RGFN:** Cash register functions

0 Cash drawer does not open

1 Cash register opens with/without sale with total and operator key

e.g \* u. 1Registration possible with open cash drawer.

2 Cash register only opens with sale with total and operator key

e.g \* u.1 Registration possible with open cash drawer.

3 Cash register opens without sale with total and operator key

e.g \* u. 1Registration not possible with open cash drawer.

4 Cash register only opens with sale with total and operator key

e.g \* u. 1 Registration not possible with open cash drawer.

#### CIOM: Payment in/out

0 = Without payment in/out

1 = Payment in/out with a currency

2 = Combined payment in/out in local currency and foreign currency

#### TADT: Talon printout delay time

0 Without talon

1..99 With talon the input number corresponds to the delay time in

seconds

#### SPIE: Repeat ticket

0 Without repeat ticket1 With repeat ticket

#### SRIE: Re-open ticket

0 without ticket re-opening1 With ticket re-opening

#### 6.3 B2PL Setting for price labeling

Table: B2PL	Local table	Number of attributes: 3
-------------	-------------	-------------------------

Description: Settings for price labeling

Description					
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag	9				
WALO	KEY	FIX	0	1	INTEGER
Price labe	Price labeling mode				
LBMO		OPT	0	2	INTEGER
Muiltiple label print delay					
MULA		OPT	0	99	INTEGER

#### **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated1 = Data record is initialised with standard values

#### LBMO: Price labeling modes

- O Price labeling. Item printouts with selling price "0.00" are not possible
- 1 Weight labeling. Item printouts with selling price "0.00" are possible, unit and selling price are also printed
- 2 Weight labeling only. Item printouts with selling price "0.00" are possible. If the unit price is "0.00", unit and selling price are not printed.

#### MULA: Multiple label print delay

0 labels are printed consecutively without delay

1..99 delay time when printing the labels

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# 6.4 B2LC Label configuration

Table: B2AP	Local table	Number of attributes: 19
1 . 45.5 . 52		i tarribor or attributour ro

Description: Label configuration

Descript	ion				
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag	7			I	
WALO	KEY	FIX	0	1	INTEGER
Predefine	d label i	layout	<b>,</b>	T	
ALID	-	OPT	0	99	INTEGER
BLD label	layout	ı		T	
BLDI	-	OPT	0	99	INTEGER
Label heig	ght			T	
HIGH	-	OPT	28	148	INTEGER
Label dist			г	T	
PGAP	-	OPT	8	40	INTEGER
Text sell-b	) <i>y</i>	ODT			IN ITED EL DA
PSBD	-	OPT	0	2	INTBFHX
EAN code	on lab				IN ITEST IN C
EANC	-	OPT	0	2	INTBFHX
EAN code	e neight				WITEOED
EHIG		OPT	5	22	INTEGER
Tare print	out on I		0		INTEGRAL
TARE	-	OPT	0	1	INTBFHX
Header te	xt print-	OPT		00	INTEGED
	-	• • •	0	99	INTEGER
Ttext for s	ен-ру а			000000000	INTECED
SBDT	- 	OPT	0	9999999999	INTEGER
Header lo	go on ia	OPT	0	0000	INTEGER
Text field	ctart on		0	9999	INTEGEN
TFBF	Start Ori	OPT	0	84	INTEGER
Data field	ctart or	• • •	0	04	INTEGER
DFBE	_	OPT	0	84	INTEGER
	monito	l .	off on label	04	INTEGER
DFIC	_	OPT	0	1	INTBFHX
Text form	at for te			l l	INTELLIX
TLAY	-	OPT	0	110	INTEGER
Price rang	ne and t			110	IIII
FRAM	-	OPT	0	7	INTBFHX
	device-	_	code on label	<u>, , , , , , , , , , , , , , , , , , , </u>	
SDDI	-	OPT	0	3	INTEGER
Print forei	an curre			<u> </u>	<del>-</del>
FCSE	-	OPT	0	4	INTEGER
label 180	° rotated	l .		<u>.                                      </u>	<u> </u>
P180	-	OPT	0	1	INTBFHX
				ı	

Text pac	ked or	7			
ATPO	-	OPT	0	99999999	INTEGER
Text use	by				
ATUB	-	OPT	0	99999999	INTEGER

#### **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated1= Data record is initialised with standard values

ALID: Label type

0 Label from BLD. See BLDI

1.. 99 predefined label.

There are pre-defined label layouts in the device. If you are working with BLD (Bizerba Label Designer) you can select freely-definable. Pre-defined labels have a text and a data area. The text area contains text, e.g. the product text. The data area contains data on the product, weight, sales price sum EAN code, etc. Text and data field areas can be adjusted. No difference is made between text and data field range on BLD labels.

BLDI: BLD label layout:

1..99 Select BLD label layout (ALID = 0)

HIGH: Label height:

28..148 mm 54 and 55 mm are not permitted

PGAP: Label distance:

8...40 Dots (8 Dots = 1 mm)

PSBD: Packaged-on and sell-by date:

#### **EANC: EAN** code print-out on label:

## EHIG: EAN code height:

5..22 mm

### TARE: Tare printout:

```
Bit field
Bit no.:
0
|
1 -Tare is printed
```

#### **HEAD:** Header text printout:

0 without header text

1..99 Number of the header text to be printed

#### SBDT: Text for sell-by:

0 Standard text

1..99999999 Number of additional text to be printed

#### LOGO: Logo print-out in header row :

0 without header logo

1..9999 Number of the header logo to be printed

#### TFBE: Start of text field:

0..84

Predefined labels are separated into a text and data field area. The text field contains the product text. The text field can be adjusted upwards or downwards within the label:

0: The text field begins right after the label header.

1..84: The text field is adjusted downwards in mm.

(0 position starts after the label header)

In BLD labels there is no subdivision of this type.

#### DFBE: Start of data field:

0..84

Predefined labels are separated into a text and data field area. The data field contains product data including unit price, weight, sales price, total, EAN code, etc. The data field can be adjusted upwards or downwards within the label.

0: The data field is moved to the end of the label.

1..84: The data field is always adjusted downwards in mm.

(0 position starts after the label header)

In BLD labels there is no subdivision of this type.

#### DFIC: Data field monitoring on/off:

```
Bit field
Bit no.:
0

|
1 - data field monitoring is on
```

When data field monitoring is activated, this prevents texts from the text field being written to the data field.

Text is cut-off on the label.

In the case of labels on tickets, the print-out is simply extended. If monitoring is deactivated, texts from the text field might continue into the data field.

#### **TLAY:** Text format for product texts:

0 The texts are represented according to the formatting in the PLU text or in line with the text sizes provided in the layout.

1..110 Select a defined font for text.

#### FRAM: Price range and texts

```
Bit field
Bit no.:
         3 2 1 0
    4
        l 1- Print price range
             | | 1- Print price ra
| 1----- Print "price"
             1----- Print "net" or "item"
    | 1------ Print "sell by" 1----- Print. "packed"
1----- Print "tare"
Bit no.:
                       6
                       1-Print. Additional text
```

#### SDDI: Operator no., machine parameter check digit on label

0 without output1 with operator no.

2 with key machine figure

3 with digit code

The label contains a field intended for output. The selected number is inserted into the field.

# FCSE: Foreign currency

P180: rotate label 180°

0: no rotation1: rotation

ATPO: Text packed on

0 Standard Text

1..99999999 number of text to be printed

ATUB: Text use by

0 Standard text

1..99999999 number of text to be printed

# 6.5 B2SC Ticket layout configuration

Table: B2SC	Local table	Number of attributes: 14
-------------	-------------	--------------------------

Description: Ticket layout configuration

Descript					
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag	7				
WALO	KEY	FIX	0	1	INTEGER
EAN code	on tick	æt			
EANC		OPT	0	3	INTBFHX
EAN code	height	on tick	et		
EHIG	-	OPT	5	22	INTEGER
Tare print	out on t	icket			
TARE		OPT	0	2	INTEGER
Header te	xt printe	out on t	icket		
HAED	-	OPT	0	99	INTEGER
Footer tex	Footer text printout on ticket				
FOOT	1	OPT	0	99	INTEGER
Additional					
FCAD	-	OPT	0	99999999	INTEGER
Additional	text for	r roundi	ng on ticket		
RDAD	-	OPT	0	99999999	INTEGER
Font chan	ge on t	icket			
TLAY	-	OPT	0	110	INTEGER
Number o	f PLU to	ext lines	s to be printed or	n ticket	
NRLI	-	OPT	0	9	INTEGER
Print ticke	t counte	er			
PRSC	-	OPT	0	1	INTBFHX
Print currency on ticket					
FCSE	-	OPT	0	4	INTBFHX
Print amo	unt paid	d in/due	out		
PRPY	-	OPT	0	1	INTBFHX
Print addit	tional te	exts			
PRGT	-	OPT	0	1	INTBFHX

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#### **Explanations:**

#### WALO: delete flag:

0 = Data record is being modified or recreated1= Data record is initialised with standard values

#### **EANC:** EAN code print-out on ticket:

#### EHIG: EAN code height:

5.22 mm

#### TARE: Tare printout on ticket:

0 = no tare value on ticket

1 Tare value net weight is identified by N (country-dependent character)

2 Tare value on ticket net weight is not identified with N

#### **HEAD:** Header text printout:

0 without header text

1..99 Number of the header text to be printed (Text from KFST)

#### FOOT: Footer text printout:

0 without footer text printout

1..99 Number of the footer text to be printed (Text from KFST)

( - - - ,

#### FCAD: Additional text for foreign currency on ticket

0 without text

1..99999999 Number of the text to be printed (Text from ATST)

#### RDAD: Additional text for rounding on ticket

0 without text

1..99999999 Number of the text to be printed (Text from ATST)

#### **TLAY:** Text format for product texts:

0 The texts are represented according to the formatting in the PLU text or in line with the text sizes provided in the layout.

1..110 Select a defined font for text.

#### NRLI: Number of PLU text lines to be printed on TICKET:

0 all rows are printed

1..9 the number of rows is printed

#### PRSC: Print ticket counter:

0= the ticket counter is not printed 1= the ticket counter is printed

## FCSE: Print currency on ticket

#### PRPY: Print change due on ticket:

0= an amount due out is not printed 1= an amount due out is printed

#### PRGT: Print additional Texts

0 additional text is not printed

1 additional to the PLU text the additional text from ATST is printed

#### 6.6 B2PS PLU settings

Table: B2PS Local table Number of attributes: 8
---

Description: PLU settings 1

Descript					
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag	7				
WALO	KEY	FIX	0	1	INTEGER
10-key ke	ypad fo	r unit p	rice or PLU input	mod.	
KM10	-	OPT	0	2	INTEGER
PLU input	of num	ber of a	digits via decima	l keypad	
NDRK	-	OPT	2	6	INTEGER
Direct PLI					
DPKM	-	OPT	0	2	INTEGER
PLU produ	uct rang	ge limit .	min. value		
PMIN	-	OPT	1	9999	INTEGER
PLU product range limit max. value					
PMAX	-	OPT	1	9999	INTEGER
PLU product range limit min. value ( 6 digit PLU number)					
PMI6	-	OPT	1	999999	INTEGER
PLU product range limit max. value ( 6 digit PLU number)					
PMA6	-	OPT	1	999999	INTEGER

#### **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated1 = Data record is initialised with standard values

KM10: 10-key keypad for unit price or PLU input

0 enter unit price via keyboard switch to PLU input via shift key

1 PLU number input via decimal keypad. Switching to unit price input with

shift key

2 PLU no. input only via 10-key keypad, unit price input not possible

NDRK: PLU input of number of digits via decimal keypad

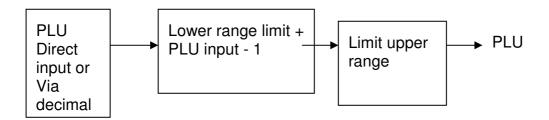
2..4 Input 2..4 digits

**DPKM:** Direct PLU product key mode

0 PLU product key no. corresponds to the PLU no.

1 Direct PLU keypad is disabled

2 PLU results from PLU product key assignment, see B2BK (In this case the range limit does not apply, see below)



The PLU number is limited by the specified range.

The lower range limit is assigned to PLU number 1

Example:

501-600 limitation

PLU input 1 produces PLU 501, this is within the 500..600 range

100 results in PLU 600 and is within the 500..600 range

101 results in PLU 601 this is not within the range and is rejected

.

PMIN: Lower range limit

1..9999

PMAX: Upper range limit

1..9999

PMI6: PLU product range limit min. value ( 6 digit PLU number)

1..999999

PMA6: PLU product range limit max. value ( 6 digit PLU number)

1..999999

Notice: PMIN and PMAX are used to be compatible with old backups.

Old backups can be restored, but new backups deliver

PMIN = 0 and PMAX = 0.

## 6.7 FUCO FUCN local key arrangement

Table: FUCO	Local table	Number of attributes: 4
-------------	-------------	-------------------------

Description: Keyboard function assignment

Descript					
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag					
WALO	KEY	FIX	0	1	INTEGER
Keys-fun					
TSFC	KEY	FIX	-32768	32767	INTEGER
Key data					
TSDA	-	FIX	0	32	INTBFHX

Tabelle : FUCN	Local table	Number of attributes: 4
----------------	-------------	-------------------------

Description: Keyboard function assignment

Beschre					
Bez.	KEY	ОРТ	MinWert	MaxWert	Datentyp
delete flag					
WALO	KEY	FIX	0	1	INTEGER
Keys-fun					
TSFC	KEY	FIX	-32768	32767	INTEGER
Key data					
TSDA	-	FIX	0	999999999999	INTEGER

This tables are primarily used to assign scale-specific numerical fixed keys (except for operator keys).

Scheduled applications are, for example:

SB PLU keys Fixed tare keys

The FUCO table contains only key data with 32 bit content as a subset of the FUCN table. The FUCN table on the other hand, encompasses all key data, including SB keys with 13-digit EAN code. (only for SC, BCII ignores 13 digit values)

WALO: delete flag:

0 = Data record is being modified or recreated 1 = Data record is deleted

Keyboard codes: TSFC:

## Direct PLU or SB-PLU keys KEYB\_PLU\_x (x:= PLU number)

KEYB_PLU_1	0x8000	32768
KEYB_PLU_2	0x8001	32769
KEYB_PLU_3	0x8002	32770
•	•	•
•	•	•
KEYB_PLU_254	0x80FD	33021
KEYB_PLU_255	0x80FE	33022
KEYB_PLU_256	0x80FF	33023

# Tare fixed value memory keys KEYB\_TARA\_x (x := number of tare fixed value)

KEYB_TARA_1	0x8200	33280
KEYB_TARA_2	0x8201	33281
KEYB_TARA_3	0x8202	33282
KEYB TARA 4	0x8203	33283

Key value. TSDA:

e.g. PLU number, TARE, etc.

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# 6.8 B2FC currency settings

Table: B2FC	Local table	Number of attributes: 10
-------------	-------------	--------------------------

Description: Foreign currency settings

Description					
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag	delete flag				
WALO	KEY	FIX	0	1	INTEGER
Select for	eign cui	rrency f	unction		
FCFN	-	OPT	0	2	INTEGER
Select for	eign cu	rrency c	display		
FCDS	-	OPT	0	1	INTBFHX
Foreign c	urrency	calcula	tion method		
FCTM	-	OPT	0	1	INTEGER
Foreign co	urrency	charac	ters for ticket an	d label layout	
FCSG	ı	OPT	0	12	VARSTR
Foreign c	urrency	charac	ters on label for	price field	
FCSP	-	OPT	0	12	VARSTR
Decimal places in foreign currency					
FCPC	-	OPT	0	3	INTEGER
Foreign currency factor					
FCFM	ı	OPT	0	3	INTEGER
Currency exchange rate (calculation factor)					
FCCA	-	OPT	0	999999	INTEGER
Rounding of foreign currency					
FCRD	-	OPT	0	2	INTEGER

WALO: delete flag:

0 = Data record is being modified or recreated1= Data record is initialised with standard values

FCFN: Select foreign currency function

0 Euro/Foreign currency function from

1 Foreign currency function on

2 Euro function on (only possible for non-Euro scales)

FCDS: Select foreign currency display

0: Foreign currency display off

(Euro or foreign currency key non-functional)

1: Foreign currency display on

Display unit and selling price, total and/or subtotal and total in payment

in/out mode

FCTM: Foreign currency calculation method

0 Total calculated through conversion

1 Total calculated through addition of selling price

FCSG: Foreign currency characters for ticket and label layout

Foreign currency characters as UTF8 coded text. Conclude with '\0' end

character.

FCSP: Foreign currency character for label for price field

Foreign currency characters as UTF8 coded text. Conclude with '\0' end

character.

FCPC: Number of decimal places in foreign currency

0..3

FCFM: Foreign currency factor

0...3 = factor 1...1000

Example

FW = Foreign currency NW = National currency

Input FCCA = 101

FCFM = 3

=> 1000 FW = 1.01 NW

FCCA: Currency exchange rate (calculation factor)

e.a. 101

results in 0001.01 in the national currency, e.g. €

FCRD: Rounding of foreign currency

0 no rounding

1 mathematical rounding to 2

2 mathematical rounding to 5

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#### 6.9 B2NP Non-PLU settings

Table: B2NP	Local table	Number of attributes: 9
-------------	-------------	-------------------------

Description: Non-PLU settings

Description			7		
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag	7				
WALO	KEY	FIX	0	1	INTEGER
Shelf-life (	days for	r non-pi	rogrammed prod	ucts	
SBDN	ı	OPT	0	32	INTBFHX
EAN code	EAN code for non-PLU weighed products				
NIWE	-	OPT	0	14	VARSTR
EAN code	for noi	n-PLU r	manual (item) pro	oducts	
NIMA	-	OPT	0	14	VARSTR
EAN code	for nor	า-PLU r	ninus products		
NIMI	ı	OPT	0	14	VARSTR
EAN code for total					
NITO	-	OPT	0	14	VARSTR
Product g	Product group for non-PLU weighed products				
NWWE	-	OPT	0	9999	INTEGER
Product g	Product group for non-PLU manual (item) products				
NWMA	-	OPT	0	9999	INTEGER
Product group for non-PLU minus products					
NWMI	-	OPT	0	9999	INTEGER

#### **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated 1= Data record is initialised with standard values

SBDN: Sell-by date for non- PLU

The sell-by date is printed similar to non-PLU. The product (PLU) only if

the 00 sell-by days are allocated to the PLU.

Details of data as system time ([sec] since 1.1.1970):1970

NIWE: EAN code for NON-PLU weighed products

Description of EAN code. See PLST (ECO1)

NIMA: EAN code for NON-PLU manual (item) products

Description of EAN code. See PLST (ECO1)

NIMI: EAN code for NON-PLU minus products

Description of EAN code. See PLST (ECO1)

NITO: EAN code for total

Description of EAN code. See PLST (ECO1)

NWWE: Product group for non-PLU weighed products

0..9999

NWMA: Product group for non-PLU manual (item) products

0..9999

NWMI: Product group for non-PLU minus products

0..9999

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# 6.10 B2O1 Further settings 1

Table: B2O1	Local table	Number of attributes: 4
-------------	-------------	-------------------------

Description: Further settings 1

Description						
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type	
delete flag	<del>g</del>					
WALO	KEY	FIX	0	1	INTEGER	
Year num	ber forr	nat				
YFOR	-	OPT	0	1	INTEGER	
Date form	at					
DFOR	-	OPT	0	9	INTEGER	
Scale sen	Scale sensitivity					
SSEN	-	OPT	0	9	INTEGER	
Keyboard selection						
KSEL	-	OPT	0	3	INTEGER	

## **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated 1= Data record is initialised with standard values

YFOR: Year number format

0 representation of year number with 2 digits 1 representation of year number with 4 digits

**DFOR:** Date format

00 = Day-Month-Year numeric	e.g. 21.07.06
<b>01</b> = Day-Month-Year alphanumeric	e.g. 21July06
02 = Day-Month alphanumeric	e.g. 21July
03 = Month Year alphanumeric	e.g. July03
<b>04</b> = Month Day Year American numeric	e.g. 07.21.06
<b>05</b> = Month Day Year American alphanumeric	e.g. Juli21.06
<b>06</b> = Year Month Day Hungarian numeric	e.g. 06.07.21
<b>07</b> = Year Month Day Hungarian alphanumeric	e.g. 06Juli21
<b>08</b> = Day Month Year Numeric	e.g. 21-07-06
<b>09</b> = Day Month Year Alphanumeric	e.g. 21-July-06

SSEN: scale sensitivity

0 scale sensitive (Standard)

. . .

9 scale less sensitive

KSEL: Keybord selection

0 Standard 84-keyborad

1 84-Keyboard 24er self service frame 2 84- Keyboard mit 30er self service frame 3 84- Keyboard reprogrammed (see KFTF)

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# 6.11 KFTF Keyboard layout

Table: KFTF	Local table	Number of attributes: 19
-------------	-------------	--------------------------

Description: Keyboard layout

Descript	ion				
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
delete flag	7			1	
WALO	KEY	FIX	0	1	INTEGER
Keyboard	numbe	r		•	
TANR	KEY	FIX	1	131	INTEGER
Line numb	per			<u>.</u>	
ZENR	KEY	FIX	0	16	INTEGER
Keys-fund	tion cod	de in co	lumn	<u>.</u>	
SP01	-	FIX	0	16	INTBFHX
Keys-fund	ction co	de in c	olumn	<u>.</u>	
SP02	-	FIX	0	16	INTBFHX
Keys-fund	ction co	de in c	olumn	<u>.</u>	
SP03	-	FIX	0	16	INTBFHX
Keys-fund	ction co	de in c	olumn	<u>.</u>	
SP04	-	FIX	0	16	INTBFHX
Keys-fund	ction co	de in c	olumn	<u>.</u>	
SP05	-	FIX	0	16	INTBFHX
Keys-fund	ction co	de in c	olumn	·	
SP06	1	FIX	0	16	INTBFHX
Keys-fund	ction co	de in c	olumn		
SP07	1	FIX	0	16	INTBFHX
Keys-fund	ction co	de in c	olumn		
SP08	-	FIX	0	16	INTBFHX
Keys-fund	ction co	de in c	olumn		
SP09	ı	FIX	0	16	INTBFHX
Keys-fun	ction co	de in c	olumn		
SP10	-	FIX	0	16	INTBFHX
Keys-fund	ction co	de in c	olumn		
SP11	-	FIX	0	16	INTBFHX
Keys-fun	ction co	de in c	olumn		
SP12	-	FIX	0	16	INTBFHX
Keys-fund	ction co	de in c	olumn		
SP13	-	FIX	0	16	INTBFHX
Keys-fun	ction co			<b>T</b>	
SP14	-	FIX	0	16	INTBFHX
Keys-fun	ction co		plumn	<b>T</b>	
SP15	-	FIX	0	16	INTBFHX
Keys-fund	ction co	de in co	olumn		
SP16	-	FIX	0	16	INTBFHX

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### **Explanations:**

WALO: delete flag:

0 = Data record is being modified or recreated

1 = Data record is deleted

**TANR:** 

**Keyboard number**: Number of stored keyboard

**ZENR:** Line number:

Row 1 identifies the row of keys on the bottom edge of the scales'

housing.

Column number: SPXX:

Column 1 describes the row of keys on the left edge of the scales'

housing.

6-26 6.111.98.0.01.04 The keyboard is separated into four levels.

Level	Keynumber	Codes
The funktion level describes	0x10 (decimal 17)	Function codes see
the function of the key		table
capital characters level	0x01	Unicode (UC16)
active in text editor mode		
(Shift - key and key must be pressed)		
small characters level	0x02	Unicode (UC16)
active in text editor mode		
Control characters level	0x03	Unicode (UC16)
active in text editor mode		
(Ctrl - key and key must be pressed)		

In text level the codes are coded in unicode.

To activate the settings in the KFTF set menu 631 to value 3 (B2O1=> KSEL = 3)

The following function codes can be used in the function level:

Function code	Function
0x0c	Paper feed
0x80000x80FF	Direct PLU key 1 256
0x81000x800F	Direct operator keys 116
0x82000x8203	Tare fixed value key 14
0x8302	Tare
0x8303	Subtotal
0x8304	Total
0x8305	Constant
0x8306	Manual
0x8307	Minus
0x8308	Reversal
0x830A	Multiplication
0x830C	Switch PLU price
0x832C	Setting the scales to ZERO
0x8405	Foreign currency key
0x8406	Key for price per part
0x8512	Date key
0x8515	Print key

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The following function codes are fix in and can't be reprogrammed

Function code	Function
0x0d	Adopt return input
0x1b	ESC
0x30 0x39	Digits 0 to 9
0x1000	Up arrow
0x1001	Down arrow
0x8301	Delete (C key)
0x839B	Mode menu key
0x83F0	Shift
0x83F1	Control

In the text levels 0x2190 (arrow left) und 0x2192 (arrow right) can not be reprogrammed.

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# 7 Commissioning

# 7.1 B2SU Commissioning BCII

Tabelle: B2SU	locale table	Number of attributes: 8
---------------	--------------	-------------------------

Description: Commissioning BCII

Description						
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type	
delete flag	7					
WALO	KEY	FIX	0	1	INTEGER	
Check val	idity of	commis	sioning			
CHSU	KEY	FIX	1	1	INTEGER	
Number F	PLU					
NRPL	ı	OPT	100	6000	INTEGER	
Number o	f extra	texts pe	er PLU			
GTPP	-	OPT	0	4	INTEGER	
Number o	f BLD to	ext field	ls per PLU			
BTPP	ı	OPT	0	10	INTEGER	
Number o	f BLD le	ogo field	ds per PLU			
BLPP	-	OPT	0	3	INTEGER	
Number general texts						
NRGT	-	OPT	50	1000	INTEGER	
Number o	Number of entries (receipt storage)					
NR6B	-	OPT	50	1200	INTEGER	

#### **Description:**

WALO: delete flag:

0 = Data record is being modified or recreated

1 = Data record is deleted

CHSU: Check validity of commissioning

1= check and store iv valid commissioning

NRPL: Number of PLU:

Number of PLU which can be stored

GTPP: Number of extra texts per PLU

Number of extra texts which can be added, to the PLU Text of the PLU

BTPP: Number of BLD text fields per PLU:

Number of BLD text fields, which can be allocated to the PLU

BLPP: Number of BLD logo fields per PLU:

Number of BLD logo fields, which can be allocated to the PLU

NRGT: Number of general texts:

Number of extra texts. (Text pool which contains the extra texts)

NR6B: Number of entries (receipt storage):

**Notice:** The commissioning will be activated after RAM clear.

The message B2CR clears the RAM and reboots the scale.

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# 8 Messages

This chapter only describes the meaning of individual messages. Details on accessing the program are included in the user manuals on SWCom or SWLSV1.

### 8.1 PROG Program version

The answer to the PROG message (N PROG) is supplied by the PROGM table, which detects the current program version of the scales connected to the host.

Table: PROG Local message Number of attributes: 8
---

Description: Program version BCII

Description					
Desc.	KEY	ОРТ	MinValue	MaxValue	Data type
Bit field					
FLAG	KEY	FIX	0	8	INTBFHX
Version S	5х-Тср				
VERS	KEY	FIX	0	8	INTBFHX
Revision	Sx-Tcp				
REV	KEY	FIX	0	99	INTEGER
Date/time	of whe	n progr	am was created	Sx-Tcp	
DATE	KEY	FIX	0	32	INTBFHX
Program	numbei	r BCII			
PROG	KEY	FIX	0	15	STRING
Database	e versio	n			
LDBV	ı	OPT	0	99	INTEGER
Database revision					
LDBR	-	OPT	0	99	INTEGER
Interfaces	Interfaces - code page				
COPG	-	OPT	0	9999	INTEGER

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# **Explanations:**

#### FLAG: Bit field

### COPG: Interfaces - code page

1001 = UTF8

The BCII only supports UTF8!!

#### 8.2 TIME date/time

The time message (N TIME) sets the system time of the scales.

Table: HOUR	global message	Number of attributes: 1
-------------	----------------	-------------------------

Description: System time
--------------------------

Description					
Desc.	KEY	OPT	MinValue	MaxValue	Data type
System time					
UUHR	KEY	FIX	0	32	INTBFHX

:

# **Explanations:**

UUHR: System time

([sec] since 1.1.1970):

When the TIME message is transmitted with SWCom, the scales directly adopts the host system time.

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#### 8.3 WARE Scales status

The answer to the GOODS message (N GOODS) is supplied by the scales number of the BCII scales.

Table: WARE	global message	Number of attributes: 2
-------------	----------------	-------------------------

Description: Scales reference (reply from BCII)

Description					
Desc.	KEY	OPT	MinValue	MaxValue	Data type
Scales reference (target)					
wrso	KEY	FIX	0	32	INTBFHX
Active scales (actual)					
wris	KEY	FIX	0	32	INTBFHX

### **Explanations:**

**WRSO:** 

WRIS: Bit field: The scales address specifies the position.

Bit 0: Scale 1 Bit 31: Scale 32

BCII do not constitute a scales network where master data is distributed.

The BCII always supplies wrso ) wris whereby the bit position of the custom scales number.

#### 8.4 B2CR clear RAM reboot scale

B2CR clears the RAM and reboots the scale.

During reboot the connection to the host is disconnected.

8-6 6.111.98.0.01.04