Kaba Benzing Record Layout – To be configured in KB's software!

In general, the punch structure and length of Kaba Benzing records are flexible, and there are various options for the record format. The first 11 fields (as highlighted in the following table) are constant while the other fields are flexible in length and position. As mentioned before, a descriptor file is used to configure the conversion of Kaba's punches to Lavie's format.

Because of the flexibility of Kaba's records, we need to match the descriptor to each records format (the options are endless!!). Therefore, we have established the following format as "KB-TK standard" i.e. KB records layout is to be defined as follows:

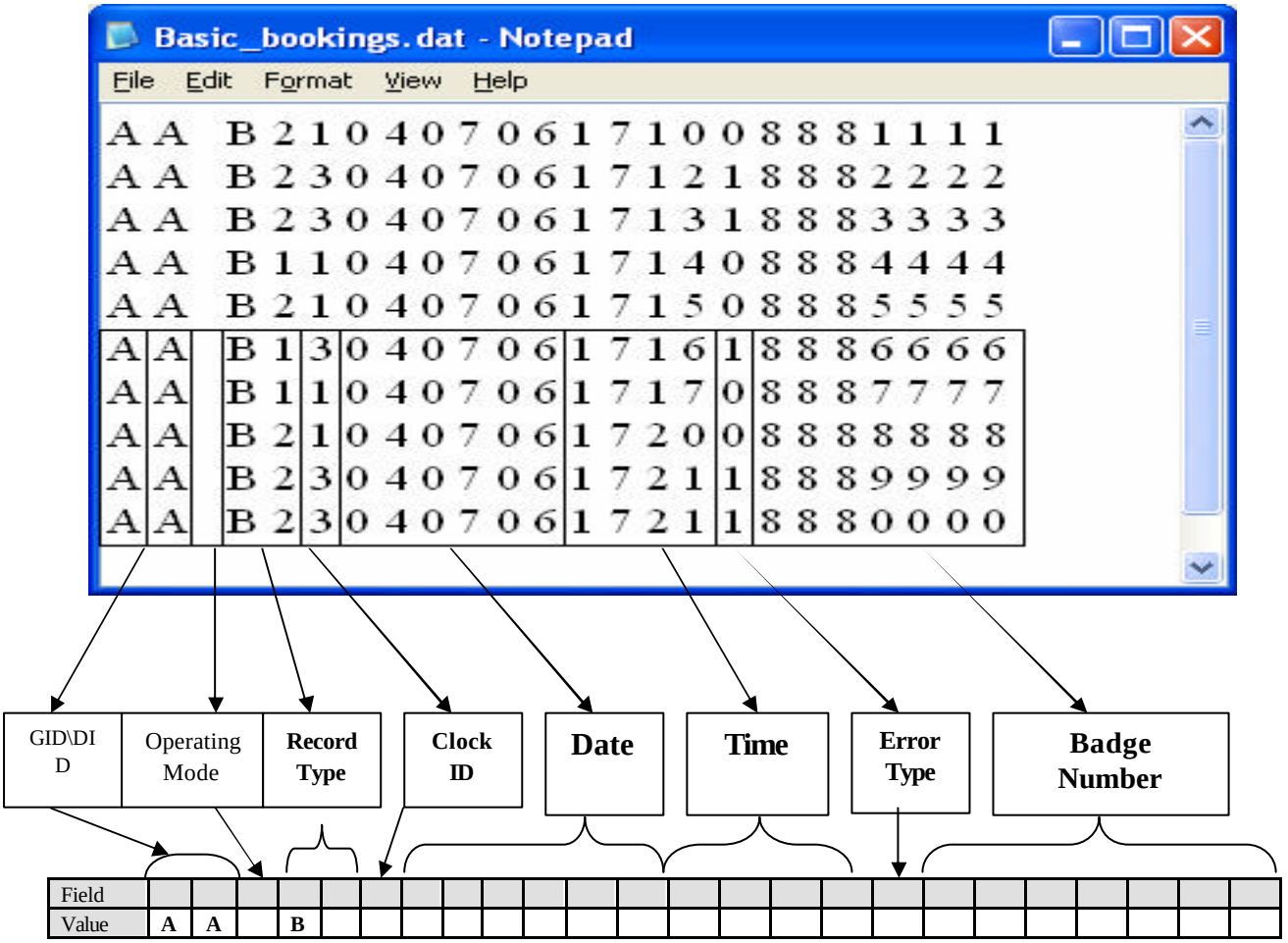
The Basic format:

1. Badge\Tag length – 7 characters.
2. No use of seconds in the time fields.
3. No use of the "User Language" field
4. The field "Clock Identifications" (Field number 5) will have the value "1" constantly to meet the rules 2-3.

Fields	Field Name	Length	Valid Range / Format	Remarks
0	GID – Group Address	1		64 - 94 in ASCII
1	DID – Device Address	1		64 – 123 in ASCII
2	Operating Mode	1		On \ Off \ Autonomy
3-4	Record type + Modification	2		In\Out\TC (See table below)*
5	Clock Identifications	1	1=Without "seconds" and "User Language"	Identifications in data records.
6-11	Date	6	YYMMDD	
12-15	Time	4	HHMM	
16	Error Type	1	0=No Error	
17 - 23	Badge No.	7		+ Keyboard data
Total Length		**24**		

* Record Type and Modifications (Field 3-4):

Value	KB's terminology	Lavie's terminology
B1	Time record "In"	"In" punch
B2	Time record "Out"	"Out" punch
B3	Official Absence "Auto In\Out"	Not applicable
B4	Official Absence "In"	On-Duty "In" punch
B5	Official Absence "Out"	On-Duty "Out" punch
B6	Correction	Not applicable
B0	Interrogation	Not applicable
BS	Begin of Break	Break Start
BE	End of Break	Break End
FA … FZ	Production Data	Time Costing
Fa … Fz	Production Data	Time Costing


Basic_bookings.dat - Notepad
File Edit Format View Help
A A B 2 1 0 4 0 7 0 6 1 7 1 0 0 8 8 8 1 1 1 1
A A B 2 3 0 4 0 7 0 6 1 7 1 2 1 8 8 8 2 2 2 2
A A B 2 3 0 4 0 7 0 6 1 7 1 3 1 8 8 8 3 3 3 3
A A B 1 1 0 4 0 7 0 6 1 7 1 4 0 8 8 8 4 4 4 4
A A B 2 1 0 4 0 7 0 6 1 7 1 5 0 8 8 8 5 5 5 5
A A B 1 3 0 4 0 7 0 6 1 7 1 6 1 8 8 8 6 6 6 6
A A B 1 1 0 4 0 7 0 6 1 7 1 7 0 8 8 8 7 7 7 7
A A B 2 1 0 4 0 7 0 6 1 7 2 0 0 8 8 8 8 8 8 8
A A B 2 3 0 4 0 7 0 6 1 7 2 1 1 8 8 8 9 9 9 9
A A B 2 3 0 4 0 7 0 6 1 7 2 1 1 8 8 8 0 0 0 0
GID\DID
Operating Mode
Record Type
Clock ID
Date
Time
Error Type
Badge Number
Field
Value
A A B

TC records format (to meet the **J33** format of Lavie's transactions**):**

1. Badge\Tag length – 7 characters.
2. No use of seconds in the time fields.
3. No use of the "User Language" field
4. The field "Clock Identifications" (Field number 5) will have the value "1" constantly to meet the rules 2-3.
5. All fields from field 24 – 151 are related to Job\TC report (highlighted).

Note: **If there are no values to fill in, the terminal should put '0' (zero) in the empty fields.**

A record with TC values would appear as follows -

Fields	Field Name	Length	Valid Range / Format	Remarks
0	GID – Group Address	1		64 - 94 in ASCII
1	DID – Device Address	1		64 – 123 in ASCII
2	Operating Mode	1		On \ Off \ Autonomy
3-4	Record type + Modification	2		In\Out\TC **
5	Clock Identifications	1	1=without "Seconds" and "User Language"	
6-11	Date	6	YYMMDD	
12-15	Time	6	HHMM	
16	Error Type	1	0=No Error	
17 - 23	Badge No.	7		+ Keyboard data
24 - 43	Work order	20		TC Records
44 - 63	Batch	20		TC Records
64 - 83	Part	20		TC Records
84 - 103	Process	20		TC Records
104 - 113	Quantity good	10	NNNNNNNddd	3 decimal places TC
114 - 123	Quantity bad	10	NNNNNNNddd	3 decimal places TC
124 - 133	Quantity rework	10	NNNNNNNddd	3 decimal places TC
134 - 143	Department	10		TC Records
144 - 147	Cost center	4		TC Records
148 - 151	Duration	4	HHMM	TC Records
Total Length		**152**