

filePro® Output/Screen format

(Versions 4.0 and later)

The **first 64 bytes** of the file are as follows:

(All values are in decimal unless preceded with "0x" for hexadecimal.)

Offset	Length	Contents
0	2	"0x3E11" - filePro output/screen format magic number
2	4	Checksum of the encoded password (see below)
6	4	Checksum of the screen image
10	2	Width of the form
12	2	Length of the form
14	2	Number of forms across the page
16	2	Number of forms down the page
18	2	Width of page
20	2	Number of lines per page
22	2	Number of lines to print per page
24	2	Size of the extended header
26	2	Extended header type (see below)
28	16	The encoded password (see below)
44	5	Name of form to print on (NCR Tower only)
49	15	Reserved

The **extended header type** is one of the following:

Value	Type
128	Form or Label
129	Report
131	"Other"
132	Screen
178	Processing only format

Extended header types 0, 1, 2, 3, 50, and 130 are for version 3.0 and earlier.

The format of **extended header types 128, 129, 131, and 178** (output formats) is as follows:

Offset	Length	Contents
0	4	Variable-length header descriptor (see below)
4	2	Number of head/title lines
6	2	Number of data lines

8	2	Number of break levels
10	9*2	Number of lines per subtotal/grand total section
28	2	Flags: Bit 0 Remove unwanted blank lines Bit 1 Alignment check is needed Bit 2 Grand total should be printed on same page
30	2	Break level for first form feed break
32	64	Sort information (see below)
96	16	Printer name
112	2	Initialization print code number
114	2	Termination print code number
116	1*4	Variable-length buffer descriptors for: Print code table

The format of **extended header type 132** screen format is:

Offset	Length	Contents
0	4	Variable-length header descriptor
4	2	Flags: Bit 0 Record deletion allowed
6	2	"0" - reserved
8	3*4	Variable-length buffer descriptors: 0 - Cursor path 1 - Color attributes 2 - Monochrome attributes

The format of the **variable-length** descriptor is:

Offset	Length	Contents
0	2	Offset from beginning of extended header to beginning of variable-length buffers
2	2	Number of variable-length buffers Currently: 1 for output formats 3 for screen formats

The format of the **variable-length buffer** descriptor is an array of:

Offset	Length	Contents
0	2	Offset from beginning of variable-length buffers to beginning of this buffer

2	2	Size (in bytes) of this buffer. A size of "0" means this buffer is not used by this format.
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The **sort information** is the following 8 bytes repeated 8 times (once for each possible sort key):

Offset	Length	Contents
0	2	Field number
2	1	Associated field instance (@AF minus 1)
3	1	Flags: bit 0 Subtotal break
4	2	Field length
6	1	"0" for ascending, "1" for descending
7	1	Field type

The **print codes** are an array of:

Offset	Length	Contents
0	2	Row
2	2	Column
4	2	Print code number
6	2	"0" - reserved

The **cursor path** is an array of:

Offset	Length	Contents
0	2	Field number. "0xFFFF" means tab-stop.

NOTES:

Immediately following the extended header is the image of the form. In the case of color screens, this is an image of the characters followed by an image of the attributes.

The encoded password and the screen image are checksummed with a proprietary algorithm to prevent someone without access to the creation password from changing the format outside of filePro. If someone does this, filePro will not let the format be used by any runtime program – you will get a checksum error. You can fix this by re-saving the format with the appropriate creation program.

All values are in decimal unless preceded with "0x" for hexadecimal.

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