

Device ID Descriptor

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The Device ID specified in IEEE Std 1284-1994

- **Length field followed by a case-sensitive string of ASCII characters (a sequence of bytes).**
- **The first two bytes are the length of the sequence, including the two length bytes.**
- **A series of keys and values follows the two length bytes.**

key: value { ,value } ;

- **Minimum necessary keys are**
MANUFACTURER (MFG), COMMAND SET (CMD), **and**
MODEL (MDL).

The Device ID specified in IEEE Std 1284-1994 (continued)

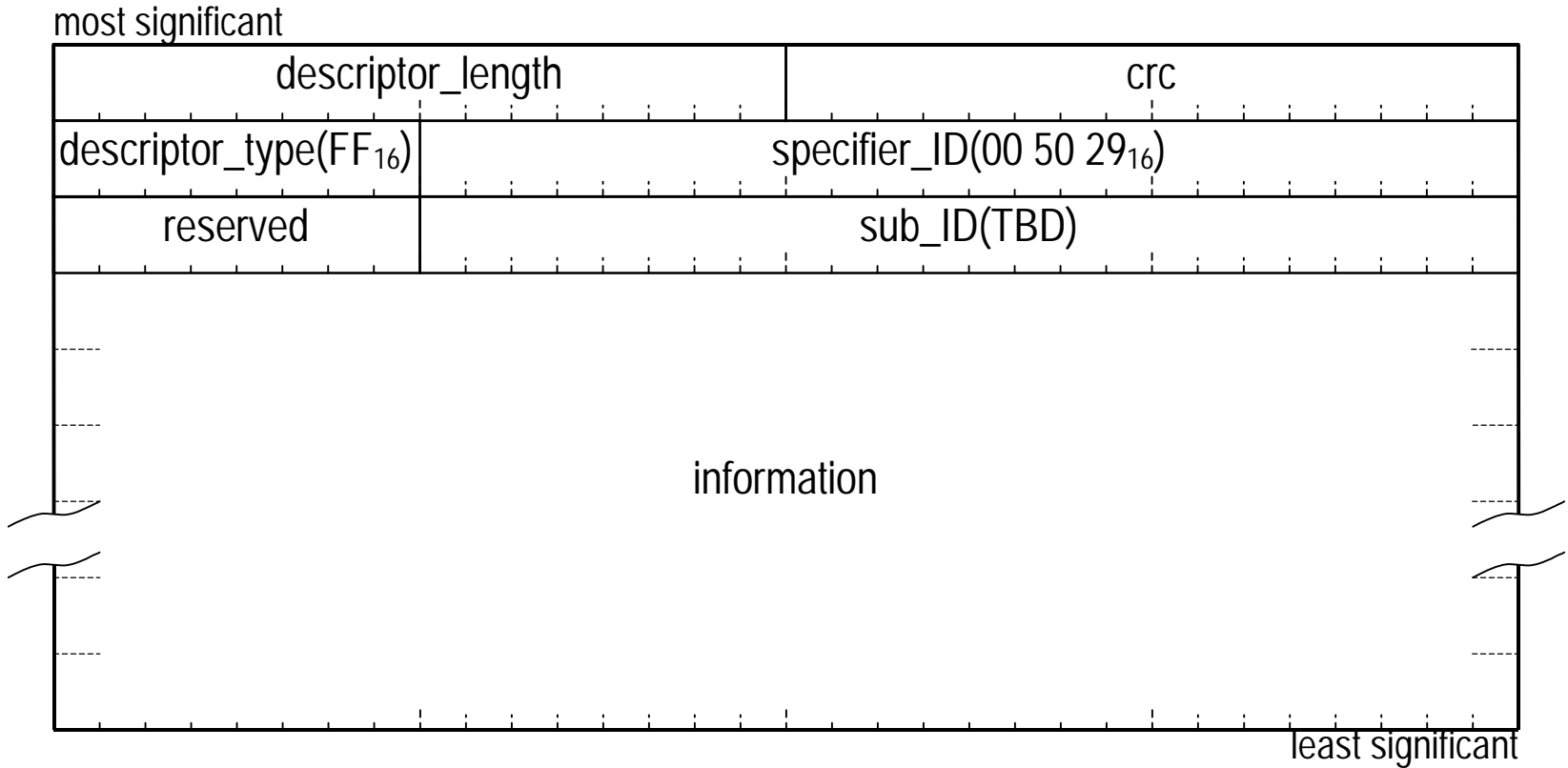
- **Colon (:), comma (,), and semi-colon (;) are the delimiters.**
- **Any leading or trailing white space (SPACE[x'20'], TAB[x'09'], VTAB[x'0B'], CR[x'0D'], NL[x'0A'], or FF[x'0C']) in the string is ignored.**
- **Example**

```
x'00',x'79',  
MANUFACTURER:ACME Manufacturing;  
COMMAND SET:PCL,MPL;  
MODEL:LaserBeam ?;  
COMMENT:Anything you like;  
ACTIVE COMMAND SET:PCL;
```

Device ID Descriptor

- **Minimal ASCII subset defined in P1212r does not cover Device ID's character set.**
- **Null padding of the textual descriptor combined with quadlet based *descriptor_length* conflicts with possible NULL[x'00'] code use of Device ID.**
- To avoid the disordered use of various descriptor formats for the Device ID ...
 - ➔ **Define uniform descriptor format for the Device ID**

Device ID Descriptor Format



Device ID Descriptor Example

most significant

descriptor_length(00 21 ₁₆)		crc	
descriptor_type(FF ₁₆)	specifier_ID(00 50 29 ₁₆)		
reserved	sub_ID(TBD)		
00 ₁₆	79 ₁₆	4D ₁₆ ("M")	41 ₁₆ ("A")
4E ₁₆ ("N")	55 ₁₆ ("U")	46 ₁₆ ("F")	41 ₁₆ ("A")
43 ₁₆ ("C")	54 ₁₆ ("T")	55 ₁₆ ("U")	52 ₁₆ ("R")
3A ₁₆ (":")	50 ₁₆ ("P")	43 ₁₆ ("C")	4C ₁₆ ("L")
3B ₁₆ (";")	00 ₁₆	00 ₁₆	00 ₁₆

least significant