TABLE 2/T.30

Bit No.	DIS/DTC	DCS
1	Transmitter – T.2 operation	
2	Receiver – T.2 operation	Receiver – T.2 operation
3	T.2 IOC = 176	T.2 IOC = 176
4	Transmitter – T.3 operation	
5	Receiver – T.3 operation	Receiver – T.3 operation
6	Reserved for future T.3 operation features	
7	Reserved for future T.3 operation features	
8	Reserved for future T.3 operation features	
9	Transmitter – T.4 operation	
10	Receiver – T.4 operation	Receiver – T.4 operation
11, 12, 13, 14 0, 0, 0, 0 0, 1, 0, 0 1, 0, 0, 0 1, 1, 0, 0 0, 0, 1, 0 0, 1, 1, 0 1, 0, 1, 0 1, 1, 1, 0 0, 0, 0, 1 0, 1, 0, 1 1, 0, 0, 1 1, 1, 0, 1 0, 0, 1, 1 0, 1, 1, 1 1, 0, 1, 1 1, 1, 1, 1	Data signalling rate V.27 *ter* fall back mode V.27 *ter* V.29 V.27 *ter* and V.29 Not used Reserved Not used V.27 *ter*, V.29 and V.33 Not used Reserved Not used V.27 *ter*, V.29, V.33 and V.17 Not used Reserved Not used Reserved	Data signalling rate 2 400 bit/s, V.27 *ter* 4 800 bit/s, V.27 *ter* 9 600 bit/s, V.29 7 200 bit/s, V.29 14 400 bit/s, V.33 12 000 bit/s, V.33 Reserved Reserved 14 400 bit/s, V.17 12 000 bit/s, V.17 9 600 bit/s, V.17 7 200 bit/s, V.17 Reserved Reserved Reserved Reserved
15	Vertical resolution – 7.7 line/mm	Vertical resolution – 7.7 line/mm
16	Two-dimensional coding capability	Two-dimensional coding
17, 18 (0,0) (0,1) (1,0) (1,1)	Recording width capabilities 1728 picture elements along scan line length of 215 mm ± 1% 1728 picture elements along scan line length of 215 mm ± 1% and 2048 picture elements along scan line length of 255 mm ± 1% and 2432 picture elements along scan line length of 303 mm ± 1% 1728 picture elements along scan line length of 215 mm ± 1% and 2048 picture elements along scan line length of 255 mm ± 1% Invalid (see Note 7)	Recording width 1728 picture elements along scan line length of 215 mm ± 1% 2432 picture elements along scan line length of 303 mm ± 1% 2048 picture elements along scan line length of 255 mm ± 1% Invalid
19, 20 (0,0) (0,1) (1,0) (1,1)	Maximum recording length capability A4 (297 mm) Unlimited A4 (297 mm) and B4 (364 mm) Invalid	Maximum recording length A4 (297 mm) Unlimited B4 (364 mm) Invalid

TABLE 2/T.30 *(Cont.)*

Bit No.	DIS/DTC	DCS
21, 22, 23 (0, 0, 0) (0, 0, 1) (0, 1, 0) (1, 0, 0) (0, 1, 1) (1, 1, 0) (1, 0, 1) (1, 1, 1)	Minimum scan line time capability at the receiver 20 ms at 3,85 1/mm: $T_{7.7} = T_{3.85}$ 40 ms at 3.85 1/mm: $T_{7.7} = T_{3.85}$ 10 ms at 3.85 1/mm: $T_{7.7} = T_{3.85}$ 5 ms at 3.85 1/mm: $T_{7.7} = T_{3.85}$ 10 ms at 3.85 1/mm: $T_{7.7} = 1/2\ T_{3.85}$ 20 ms at 3.85 1/mm: $T_{7.7} = 1/2\ T_{3.85}$ 40 ms at 3.85 1/mm: $T_{7.7} = 1/2\ T_{3.85}$ 0 ms at 3.85 1/mm: $T_{7.7} = T_{3.85}$	Minimum scan line time 20 ms 40 ms 10 ms 5 ms 0 ms
24	Extend field	Extend field
25	2400 bit/s handshaking	2400 bit/s handshaking
26	Uncompressed mode	Uncompressed mode
27	Error correction mode	Error correction mode
28	Set to “0”	Frame size 0 = 256 octets 1 = 64 octets
29	Error limiting mode	Error limiting mode
30	Reserved for G4 capability on PSTN	Reserved for G4 capability on PSTN
31	T.6 coding capability	T.6 coding enabled
32	Extend field	Extend field
33 (0) (1)	Validity of bits 17, 18 Bits 17, 18 are valid Bits 17, 18 are invalid	Recording width Recording width indicated by bits 17, 18 Recording width indicated by this field bit information
34	Recording width capability: 1216 picture elements along scan line length of 151 mm ± 1%	Middle 1216 elements of 1728 picture elements
35	Recording width capability: 864 picture elements along scan line length of 107 mm ± 1%	Middle 864 elements of 1728 picture elements
36	Recording width capability: 1728 picture elements along scan line length of 151 mm ± 1%	Invalid
37	Recording width capability: 1728 picture elements along scan line length of 107 mm ± 1%	Invalid
38	Reserved for future recording width capability	
39	Reserved for future recording width capability	
40	Extend field	Extend field

Notes to Table 2/T.30

Note 1 – Standard facsimile units conforming to T.2 must have the following capability: Index of cooperation (IOC) = 264.

Note 2 – Standard facsimile units conforming to T.3 must have the following capability: Index of cooperation (IOC) = 264.

Note 3 – Standard facsimile units conforming to T.4 must have the following capability: Paper length = 297 mm.

Note 4 – Where the DIS or DTC frame defines V.27 *ter* capabilities, the equipment may be assumed to be operable at either 4800 or 2400 bit/s.

Where the DIS or DTC frame defines V.29 capabilities, the equipment may be assumed to be operable at either 9600 or 7200 bit/s per V.29, where it defines V.33 capabilities, the equipment may be assumed to be operable at either 14 400 bit/s or 12 000 bit/s per V.33 and where it defines V.17, the equipment may be assumed to be operable at 14 400 bit/s, 12 000 bit/s, 9600 bit/s or 7200 bit/s per V.17.

Note 5 – $T_{7.7}$ and $T_{3.85}$ refer to the scan line times to be utilized when the vertical resolution is 7.7 lines/mm or 3.85 lines/mm, respectively (see bit 15 above). $T_{7.7} = 1/2\ T_{3.85}$ indicates that in the high resolution mode, the scan line time can be decreased by half.

Note 6 – The standard FIF field for the DIS, DTC and DCS signals is 24 bits long. If the "extended field" bit(s) is a 1, the FIF field shall be extended by an additional eight bits.

Note 7 – Existing equipment may send the invalid (1,1) condition for bits 17 and 18 of their DIS signal. If such signal is received, it should be interpreted as (0,1).

Note 8 – The values of bit No. 28 in the DCS command is valid only when the indication of the T.4 error correction mode is invoked by bit 27.

Note 9 – When bit 33 is set to 1 in DCS, the meaning of bit 15 originally defined to indicate 7.7/mm vertical resolution is modified to mean a higher resolution.

Note 10 – When the recording width is A4 only, the field consisting of bits 33-40 need not be present.

Note 11 – The optional T.4 error correction mode of operation requires 0 ms of the minimum scan line time capability. Bits 21-23 in DIS/DTC signals indicate the minimum scan line time of a receiver regardless of the availability of the error correction mode.

In case of error correction mode, the sender sends DCS signal with bits 21-23 set to 1.1.1 indicating 0 ms capability.

In case of normal G3 transmission, the sender sends DCS signal with bits 21-23 set to the appropriateness according to the capabilities of the two machines.

Note 12 – T.6 coding scheme capability specified by bit 31 is valid only when bit 27 (error correction mode) is set as a “1” .