



Evolis SDK

Binary Status management

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Binary status of a printer

Introduction

The binary status of a printer is a sequence of binary data giving the state of a printer at a given time. Status could be retrieved using : **-status** argument:

```
C:\Program Files\Evolis Card Printer\Evolis Premium Suite\Tools>evocom -p"Evolis Primacy (Copy 4)" -status
04 00 10 88 52 06 20 20 40 00 00 00 00 00 00 00 00 02 00 00 04 80 0c 00 00 04 00 01 00 00
```

Prerequisite

The printer **must** be set in Pps;l mode (not compliant with Quantum 2) :

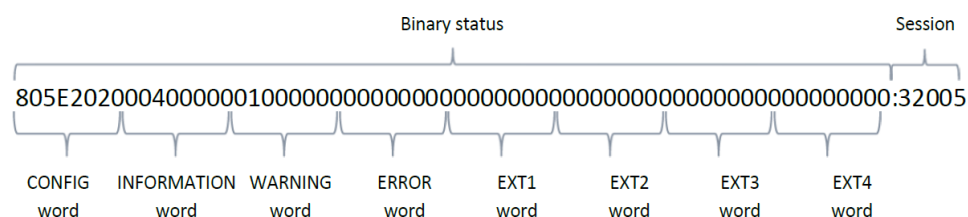
1. status is enabled in the printer's response frame
2. communication with the printer leverages a bidirectional protocol
3. Service identifies the status and the session ID

Available information through status

- Printer hardware configuration (CONFIG),
- Printer state (INFORMATION),
 - Warning messages (WARNING),
 - Error message (ERROR),
 - Extended data 1 (EXT1),
 - Extended data 2 (EXT2),
 - Extended data 3 (EXT3),
 - Extended data 4 (EXT4).

The information is in the form of a 32 bytes data piece (8x4 bytes), with 4 bytes for each type of information listed above and according to the list order (32 bits of information possible for each type of information).

The state string returned by the service must be converted into a Hexadecimal value, so that it can be matched to the hexadecimal masks shown in the following table. Here is an explanation for each string section.



The following matrix describes the bits meaning for each information type. The mask indicated for each bit is the hexadecimal mask to be used for testing the bit within the context of the word (32bits) containing this bit, and in relation with one type of information.

Word containing CONFIG type information

Byte	Bit value	Mask	Description
1	CFG_X01	0x80000000	Primacy printer model
	CFG_X02	0x40000000	Zenius printer model
	CFG_X04	0x10000000	Elypso printer model
	CFG_EXTENSION_1	0x08000000	Status Extension 1 enabled
	CFG_S01	0x04000000	Badgy, Apteo printer Model
	CFG_KC200	0x01000000	KC200 printer Model
2	CFG_WIFI	0x00800000	Wi-Fi is available
	CFG_ETHERNET	0x00400000	Ethernet is available
	CFG_FLIP	0x00100000	Flip-over feature is available
	CFG_CONTACTLESS	0x00080000	Contactless encoding feature is available
	CFG_SMART	0x00040000	Smart encoder is available
	CFG_MAGNETIC	0x00020000	Magnetic encoder is available
3	CFG_EXTENDED_RESOLUTION	0x00000400	
	CFG_LCD	0x00000200	LCD feature is available
4	CFG_JIS_MAG_HEAD	0x00000040	JIS magnetic encoding head is available
	CFG_MONO_ONLY	0x00000008	Monochrome printing only
	CFG_KC100	0x00000004	KC100 printer Model
	CFG_KINE	0x00000002	Kineclipse is available

Word containing INFORMATION type information

Byte	Bit value	Mask	Description
1	INF_CARD_FEEDER	0x20000000	Card present in the feeder module
	INF_CARD_FLIP	0x10000000	Card present in the flip-over module
	INF_CARD_CONTACTLESS	0x08000000	Card present in the Contactless module
	INF_CARD_SMART	0x04000000	Card present in the Smart module
	INF_CARD_PRINT	0x02000000	Card present in the printing module
	INF_CARD_EJECT	0x01000000	Card present in the eject module
2	INF_SLEEP_MODE	0x00200000	The cleaning cycle is exceeded
	INF_UNKNOWN_RIBBON	0x00100000	
	INF_LOW_RIBBON	0x00080000	
	INF_CLEANING_MANDATORY	0x00040000	
	INF_CLEANING	0x00020000	
3	INF_CLEAN_OUTWARRANTY	0x00008000	
	INF_CLEAN_LAST_OUTWARRANTY	0x00004000	
	INF_CLEAN_2ND_PASS	0x00002000	
	INF_CLEANING_ADVANCED	0x00000800	
	INF_WRONG_ZONE_RIBBON	0x00000400	
	INF_CLEANING_REQUIRED	0x00000100	
4	INF_PRINTING_RUNNING	0x00000080	See appendix
	INF_ENCODING_RUNNING	0x00000040	See appendix
	INF_CLEANING_RUNNING	0x00000020	See appendix
	INF_WRONG_ZONE_ALERT	0x00000010	See appendix
	INF_WRONG_ZONE_EXPIRED	0x00000008	See appendix
	INF_UPDATING_FIRMWARE	0x00000002	See appendix

Word containing WARNING type information

Byte	Bit value	Mask	Description
1	DEF_POWER_SUPPLY	0x80000000	
	DEF_CARD_ON_EJECT	0x04000000	
	DEF_WAIT_CARD	0x02000000	
	DEF_FEEDER_EMPTY	0x01000000	
2	DEF_COOLING	0x00200000	
	DEF_HOPPER_FULL	0x00100000	
	DEF_RIBBON_ENDED	0x00080000	
	DEF_PRINTER_LOCKED	0x00040000	
	DEF_COVER_OPEN	0x00020000	
	DEF_NO_RIBBON	0x00010000	
3	DEF_UNSUPPORTED_RIBBON	0x00008000	

Word containing ERROR type information

Byte	Bit value	Mask	Description
1	ERR_HEAD_TEMP	0x20000000	
	ERR_FEEDER_ERROR	0x08000000	
	ERR_RIBBON_ERROR	0x04000000	
	ERR_COVER_OPEN	0x02000000	
	ERR_MECHANICAL	0x01000000	
2	ERR_REJECT_BOX_FULL	0x00800000	
	ERR_BAD_RIBBON	0x00400000	
	ERR_RIBBON_ENDED	0x00200000	
	ERR_BLANK_TRACK	0x00080000	
	ERR_MAGNETIC_DATA	0x00040000	
	ERR_READ_MAGNETIC	0x00020000	
	ERR_WRITE_MAGNETIC	0x00010000	
3	ERR_FEATURE	0x00008000	

Word containing EXT1 type information

Byte	Bit value	Mask	Description
1	CFG_EXTENSION_2	0x80000000	Status Extension 2 enabled
2	CFG_LAMINATOR	0x00080000	Lamination features are available
	INF_LAMINATING_RUNNING	0x00020000	
3	INF_LAMI_TEMP_NOT_READY	0x00008000	
	INF_FEEDER_NEAR_EMPTY	0x00000100	
4	INF_FEEDER1_EMPTY	0x00000080	Card feed problem
	INF_FEEDER2_EMPTY	0x00000040	Check:
	INF_FEEDER3_EMPTY	0x00000020	Card, gauge position
	INF_FEEDER4_EMPTY	0x00000010	
	INF_FEEDER1_NEAR_EMPTY	0x00000008	Feeder 1 almost empty
	INF_FEEDER2_NEAR_EMPTY	0x00000004	Feeder 2 almost empty
	INF_FEEDER3_NEAR_EMPTY	0x00000002	Feeder 3 almost empty
	INF_FEEDER4_NEAR_EMPTY	0x00000001	Feeder 4 almost empty

Word containing EXT2 type information

Byte	Bit value	Mask	Description
1	CFG_EXTENSION_3	0x80000000	Status Extension 3 enabled
2	CFG_LAMINATION_MODULE_2	0x00800000	Second lamination unit is available
	INF_LAMINATE_UNKNOWN	0x00400000	
	INF_LAMINATE_LOW	0x00200000	
	INF_LAMI_CLEANING_RUNNING	0x00080000	
	INF_LAMI_UPDATING_FIRMWARE	0x00040000	
3	DEF_NO_LAMINATE	0x00008000	
	DEF_LAMI_COVER_OPEN	0x00004000	
	DEF_LAMINATE_END	0x00002000	
	DEF_LAMI_HOPPER_FULL	0x00001000	
	DEF_LAMINATE_UNSUPPORTED	0x00000800	
4	ERR_LAMI_TEMPERATURE	0x00000080	
	ERR_LAMINATE	0x00000040	
	ERR_LAMI_MECHANICAL	0x00000020	
	ERR_LAMINATE_END	0x00000010	
	ERR_LAMI_COVER_OPEN	0x00000008	

Word containing EXT3 type information

Byte	Bit value	Mask	Description
1	CFG_EXTENSION_4	0x80000000	Status Extension 4 enabled

Word containing EXT4 type information

Byte	Bit value	Mask	Description
1	CFG_EXTENSION_5	0x80000000	Status Extension 5 enabled

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