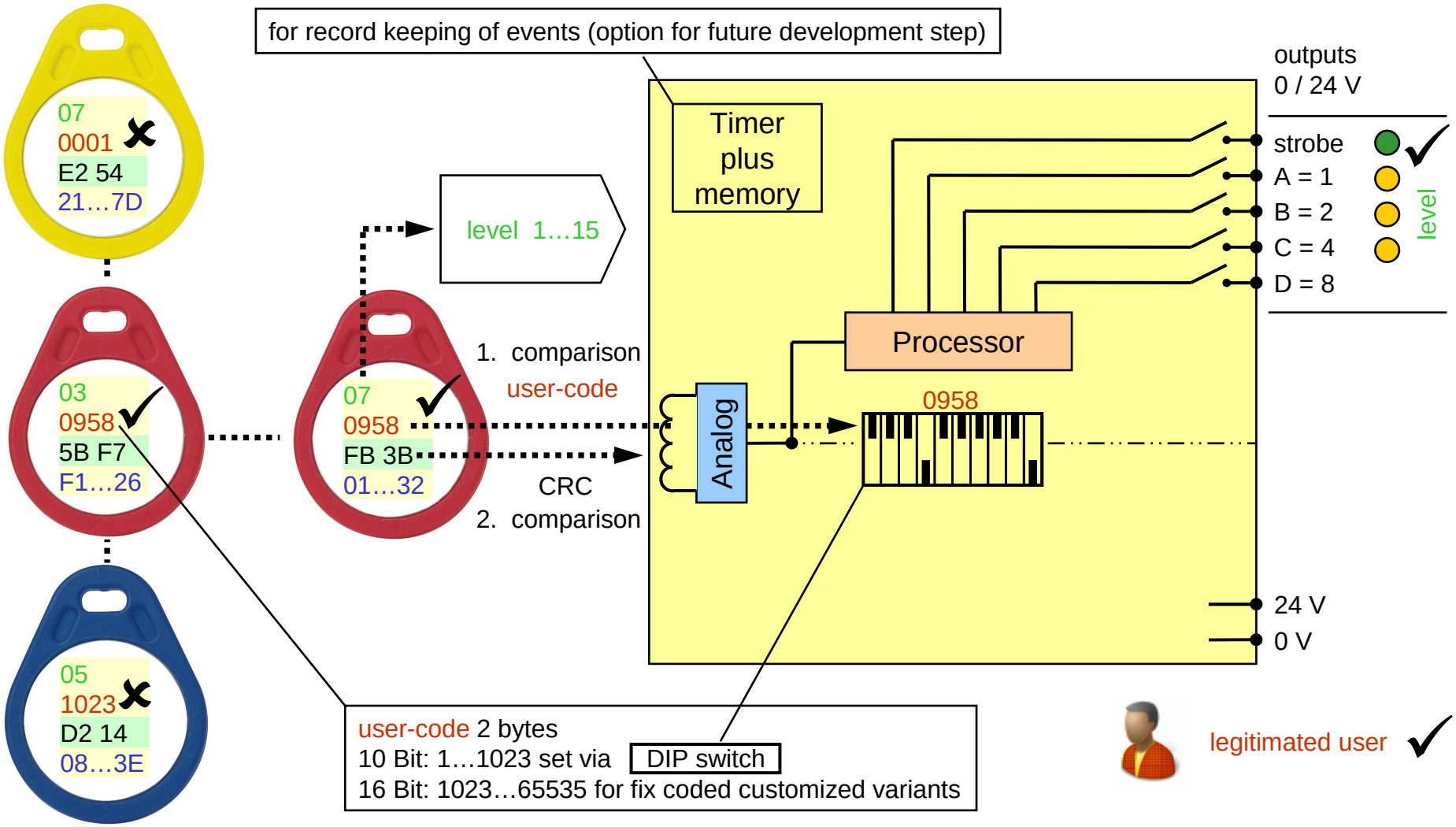
EKS Lite Concept
General aspects

- For the user to be simple to connect: only switched contacts to I/Os (0 V, 24 V)
- Read-only operation in EKS Lite key adapter
- Build-up: compact, integrated electronics within key adapter standard housing
  - Price/performance optimized design

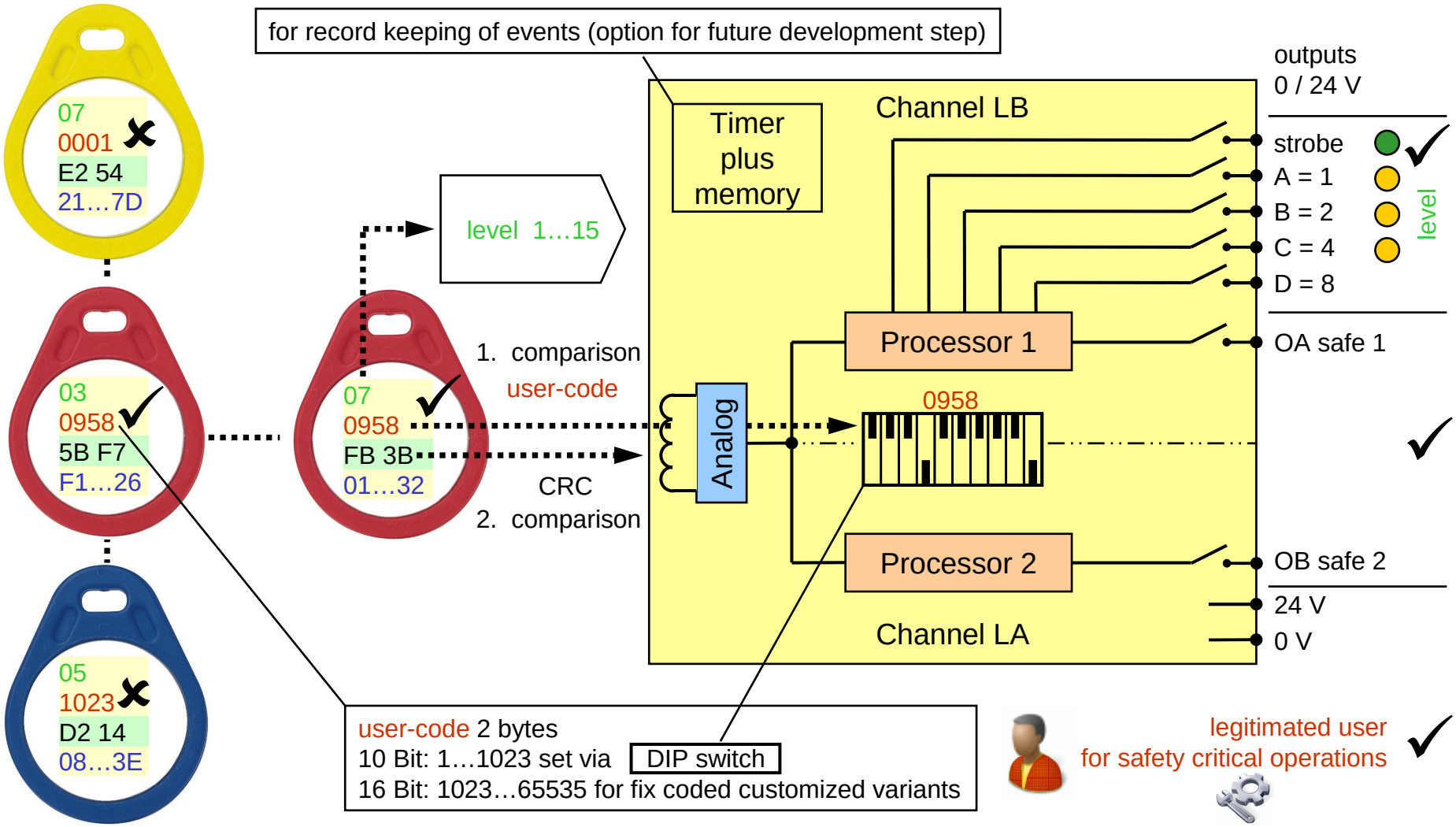
- Scalable hardware platform
  - Access control (development step 1)
  - Access control For Safety Applications *FSA* (development step 2)
  - Variants with enhanced functions in future development steps
- Device internal data evaluation and hereby user recognition
- EKS product line extended, based on EKS standard transponder
  - Electronic-Key compatibility with existing key adapters
  - Flexibility on Electronic-Key programming and administration

EKS Lite Concept - version 1 - integrated evaluation + 4-bit parallel



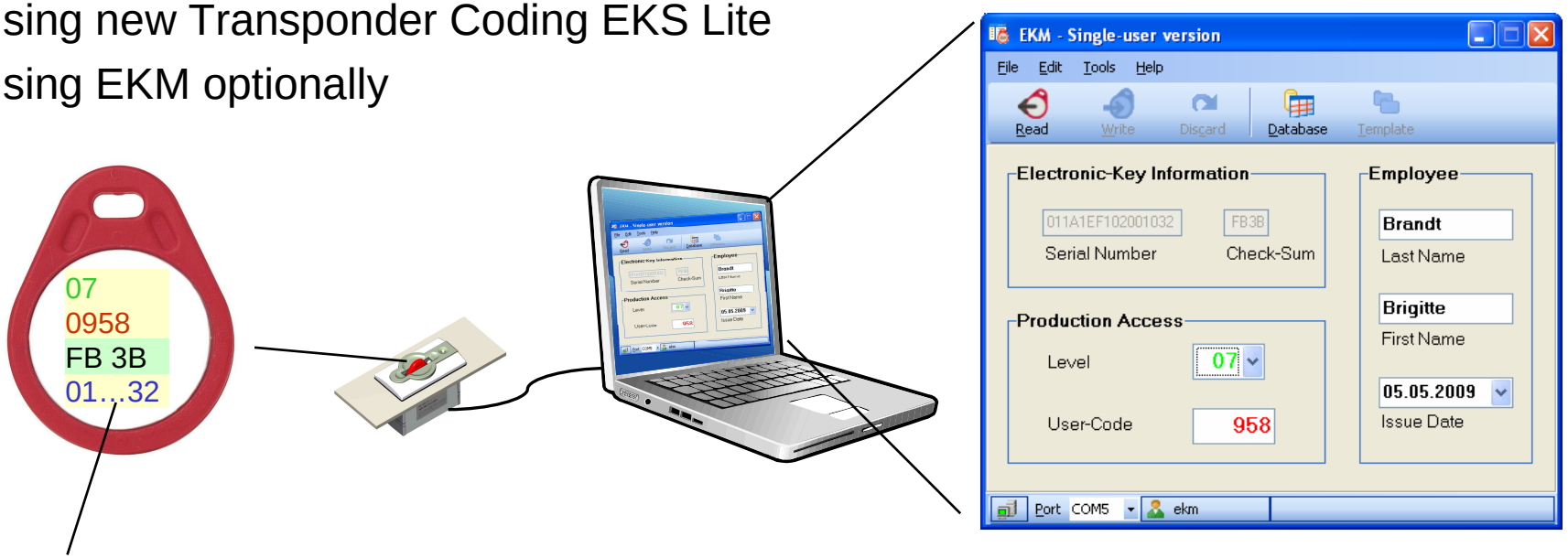
EUCHNER

EKS Lite Concept - version 2 - integrated evaluation + 4-bit parallel *FSA*



EKS Lite Concept
Programming of the Electronic-Keys

- Access level, user-code and check-sum (CRC)
- Using new Transponder Coding EKS Lite
- Using EKM optionally



Byte no.:	0	…	110	111	112	113	114	115	116	…	123
Value [dec]:					958						
Value [hex]:				07	03	BE	FB	3B	01	…	32
Function:	freely available			level	user-code		EKM CRC		serial number		

EKS Lite Concept
Application, features & functions, schedule - summary

- Application
  - Identification of a user respectively a user group and…
  - Signalling of access level (1 through 15) e. g. for selection of operating mode
- User code to be set via DIP switch within key adapter
  - Coding can be set independent from key being present
  - User group can be locked by changing coding
- Protection against key manipulation via check-sum in key and firmware

- Safe log-in/log-off according to category 3 with step 2

- Development schedule target for the initial two steps...
  - Step 1: EKS Lite - for access control 2Q 2010
  - Step 2: EKS Lite *FSA* - for access control and for safety applications 1Q 2011