

Datastruktur och dataprotokoll för RFID i bilindustrin

Olle Hydbom
RFID Constructors AB
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Requirements 1

- It shall be possible to accommodate both Odette and DUNS data numbering schemes. The LA (Japanese numbering scheme) must also be possible to accommodate in the same framework.
- The most important data elements must be stored in MB01, for performance reasons.

- The content of MB01 must be globally unique, i.e. it is, according to the ISO/IEC RFID standards rules, the responsibility of the organisation programming the RFID tag for use as an electronic label, to ascertain that the combination of the contents in the data fields in MB01, beginning with the AFI-field, is unique on a global scale.
- It is an advantage if the same data representation/encoding scheme can be used both for RTIs (Containers) as well as for Individual Items markings.

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Requirements 3

- The memory of the RFID tag shall be used as efficiently as possible. This entails using compaction where possible. Since the data in the tag is not user readable anyway, it is no extra burden to use compaction/de-compaction.
- Use of already existing, and valid, standards in this field shall be maximised.

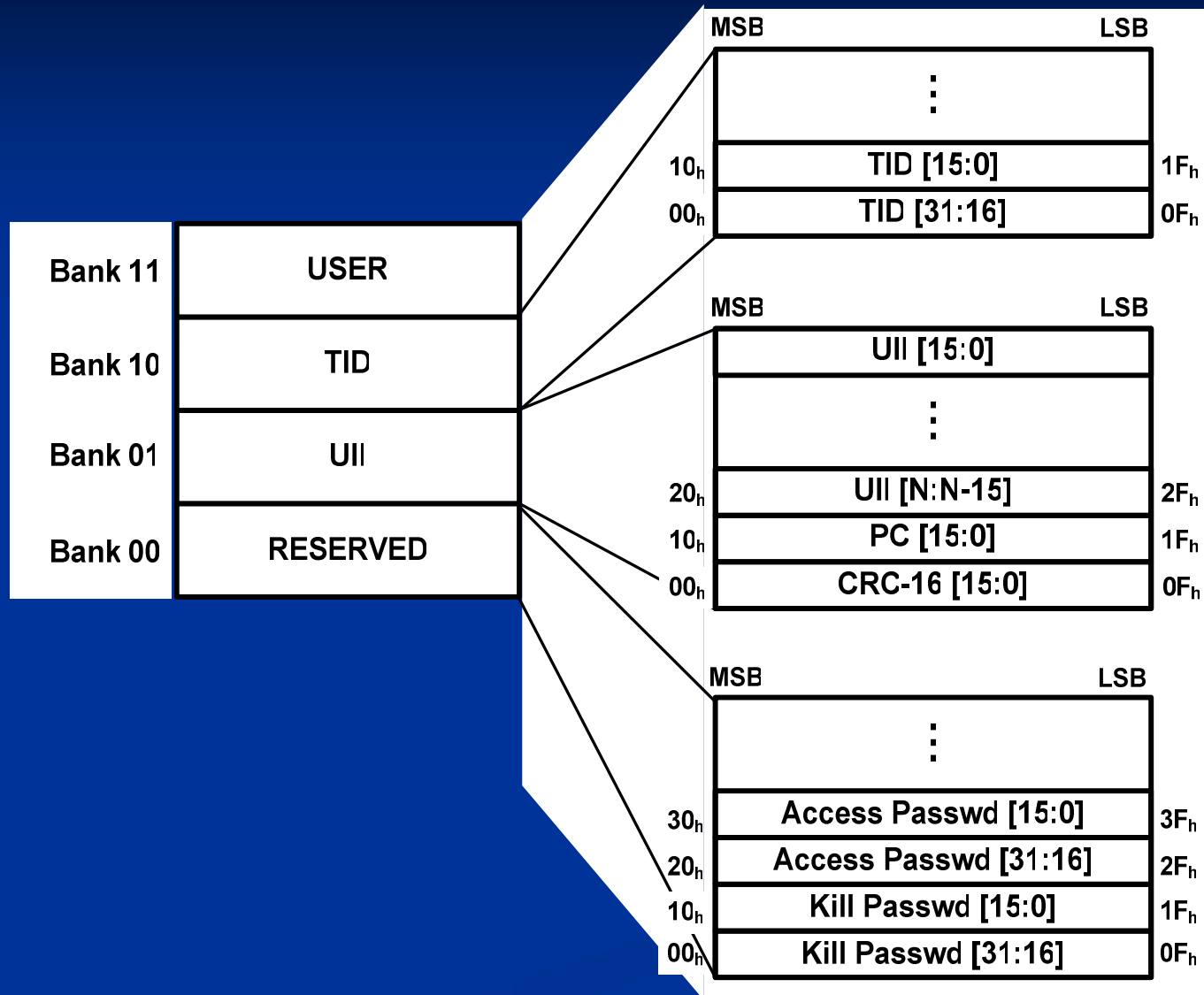
- ISO/IEC 18000-6; RFID tag logical memory layout.
- ISO/IEC 15961-2; Data constructs registration
- ISO/IEC 15961-3; Data constructs
- ISO/IEC 15962; RFID tag data encoding recommendations
- ISO/IEC 15459-1; Transport Units for logistics
- ISO/IEC 15459-4; Unique Items for logistics
- ISO/IEC 15459-5; RTIs for logistics

- Alien
- Caen A528
- Deister UD5L
- Impinj Speedway
- Motorola
- NordicID
- Omron
- Sirit Infinity 510
- (SkyeTek M9 – not yet fully verified)
- SmartID
- ThingMagic 5E
- Tricon

Tags with support for 240-bit MB01

- UPM Raflatac 3001276 (short dipole, wet), NXP G2XL chip
- UPM Raflatac 3001282 (short dipole, wet), NXP G2XM chip
- UPM Raflatac 3001303 (dog bone, wet), NXP G2XL chip
- ...

ISO 18000-6 memory map



Odette tag data map

