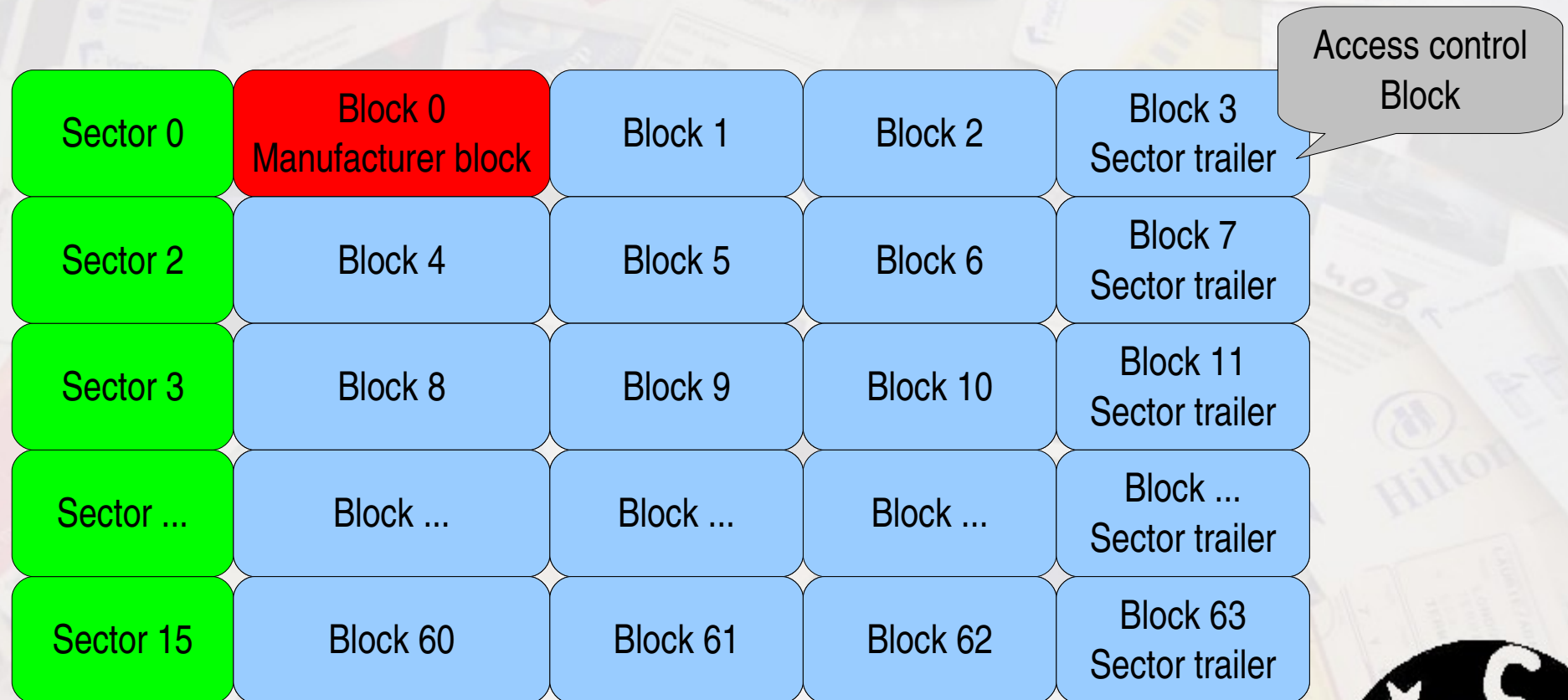


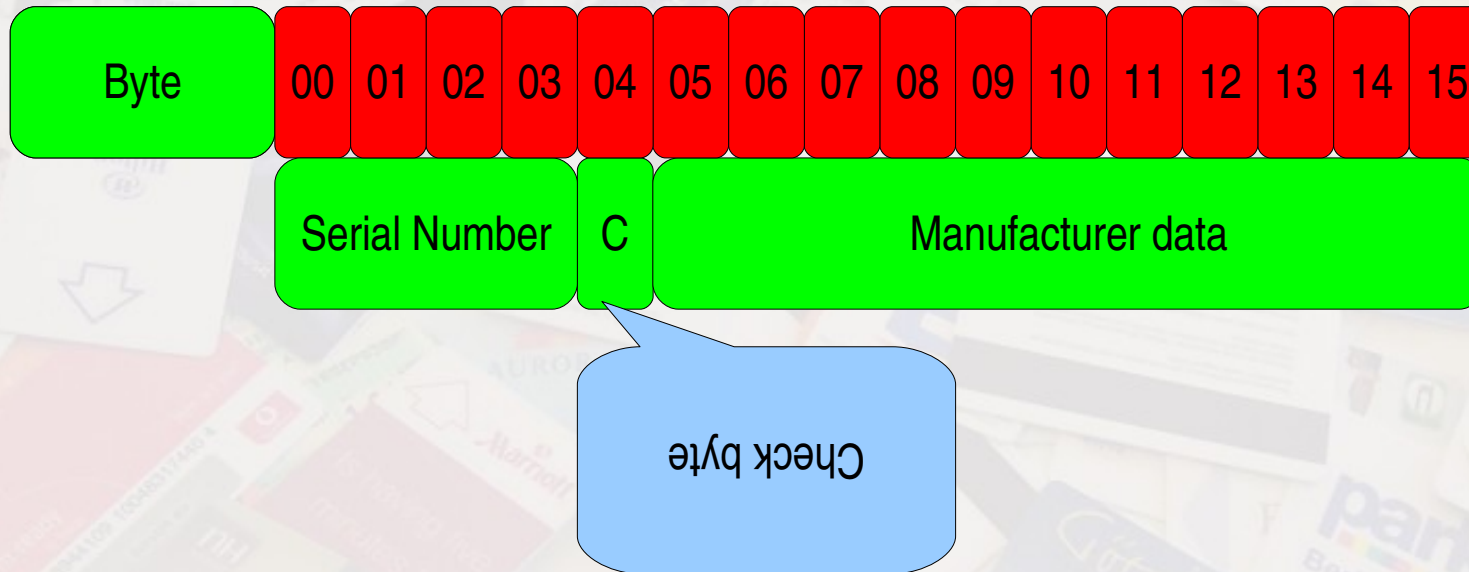
MIFARE 1K – block layout



16 sectors, 4 blocks per sector,
16 bytes per block = 1024 bytes



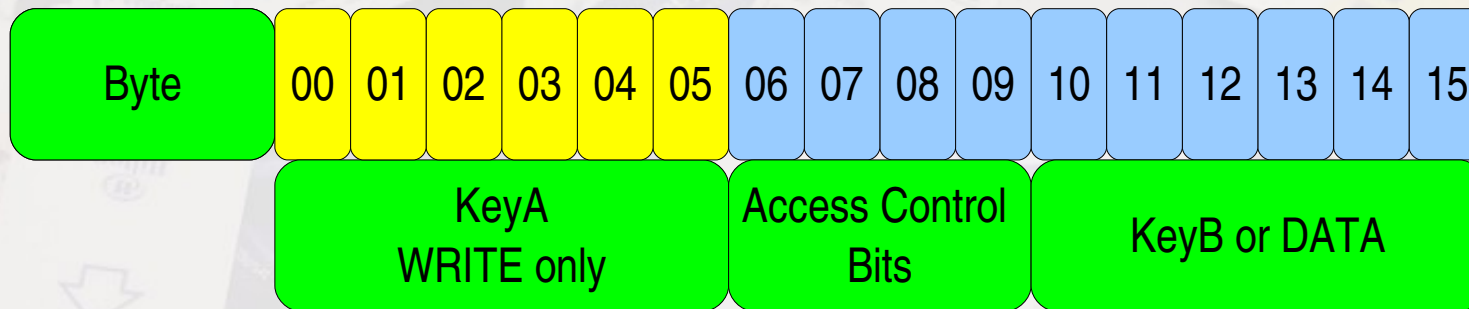
manufacturer block layout



Whole block is read only



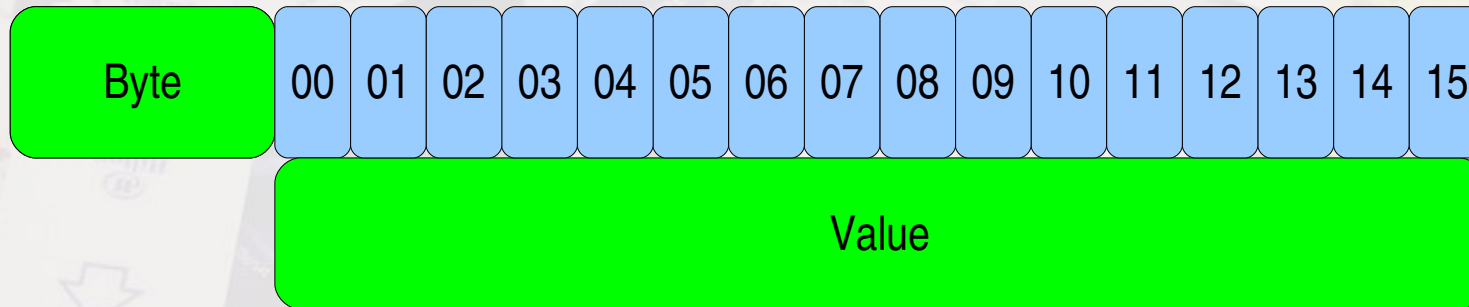
access control block layout



- **KeyA can never be read**
- **KeyB may be read and/or written**
 - depending on ACB
- **ACB for various combinations**
 - who may read/write keys
 - who may increment/decrement/restore value blocks



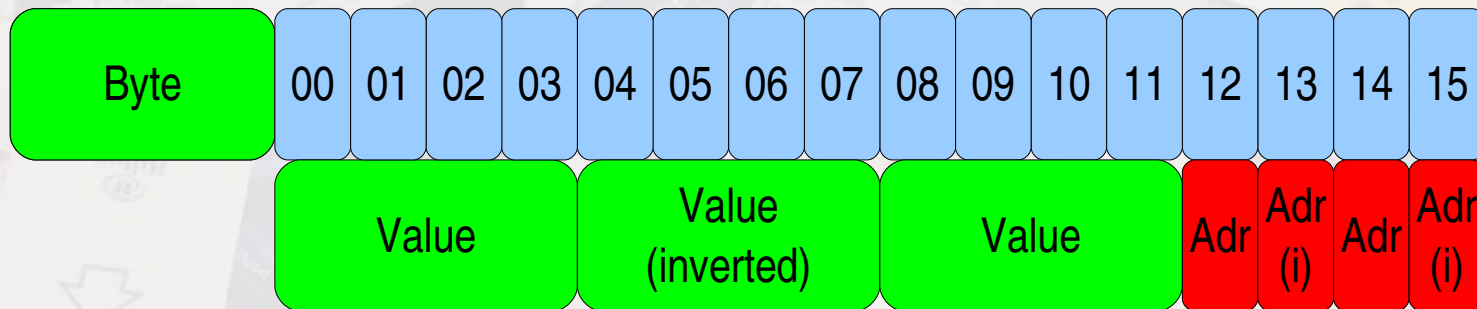
data block



- 1b bytes free storage



value block



- **Value stored 3 times**
 - Twice non-inverted, once inverted
- **Address byte stored 4 times**
 - Twice non-inverted, twice inverted
 - Audit trails
 - Backup
 - Read only (by value commands)



tag operations

