## MINIMAL SECTOR ARCHIVER

minimal fault-tolerant data encoding of archives on virtual sectors level

## SECTOR FORMAT

```
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| XXX | DESCRIPTION | FORMULA
______
DAT | File data
DATA SECTORN: [SIDN DATN]
default sector size = 512
sector payload size = 448 (sector size - 64)
N - sector number
DAT format: byte array
ARN format: UTF-8 bytes (without BOM)
| FID format: byte array
| SID format: byte array
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Data correction: binary voting on sector copies
______
```

## USER-SIDE INFORMATION TO RESTORE DATA

```
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ARN+FID (Archive name + File identificator + File Size)
_____
```

```
ARN Archive name
FID A B C
1 FFFF FFFF FFFF
2 FFFF FFFF FFFF
 FFFF FFFF FFFF FFFF
3
  5
6
7 FFFF FFFF FFFF
8 FFFF FFFF FFFF
SIZE 0000 0000 0000 0000
```

```
ARN - allows to store each archive in dedicated space
     of virtual sectors
```

FID - allows to identify/check integrity of stored file SIZE - file size in decimal format, used in SID-generation (quantity of sectors) and allows to trim restored data