

ISO/IEC 1001:2012-08 (E)

Information technology - File structure and labelling of magnetic tapes for information interchange

| Contents | | Page |
|-----------------|---|-------------|
| Foreword | | v |
| 1 | Scope | 1 |
| 2 | Conformance | 1 |
| 2.1 | Conformance of a magnetic tape volume set | 1 |
| 2.2 | Conformance of an information processing system | 1 |
| 3 | Normative references | 2 |
| 4 | Terms and definitions | 2 |
| 5 | Notation | 4 |
| 6 | Arrangement of labels and files | 4 |
| 6.1 | Arrangement of data on a volume | 4 |
| 6.2 | Arrangement of label groups | 4 |
| 6.2.1 | Labels | 4 |
| 6.2.2 | Label sets | 5 |
| 6.2.3 | Label groups | 5 |
| 6.3 | Arrangement of file sections | 5 |
| 6.3.1 | File section | 5 |
| 6.3.2 | Labelled-Sequence | 5 |
| 6.4 | Relationship of file sections to a volume | 6 |
| 6.5 | Arrangement of files and file sets | 6 |
| 6.5.1 | Files | 6 |
| 6.5.2 | File sets | 6 |
| 6.6 | Structure of a volume set | 7 |
| 7 | File structure for data interchange | 7 |
| 7.1 | File structure for data interchange for a-characters | 7 |
| 7.1.1 | Blocks | 7 |
| 7.1.2 | Records | 8 |
| 7.1.3 | Files | 9 |
| 7.2 | File structure for data interchange for e-characters | 10 |
| 7.2.1 | Blocks | 10 |
| 7.2.2 | Records | 10 |
| 7.2.3 | Files | 11 |
| 8 | Format and contents of the labels and label sets | 11 |
| 8.1 | Format and contents of the labels and label sets for a-characters | 11 |
| 8.1.1 | Character set and coding | 11 |
| 8.1.2 | Justification of characters | 12 |
| 8.1.3 | Volume Header Label Set (VOL1 to VOL9) | 12 |
| 8.1.4 | Installation Volume Label Set (UVL1 to UVL9) | 14 |
| 8.1.5 | File Header Label Set (HDR1 to HDR9) | 15 |
| 8.1.6 | User File Header Label Set (UHL) | 20 |
| 8.1.7 | End of Volume Label Set (EOV1 to EOVS) | 20 |
| 8.1.8 | End of File Label Set (EOF1 to EOF9) | 23 |
| 8.1.9 | User File Trailer Label Set (UTL) | 25 |
| 8.2 | Format and contents of the labels and label sets for e-characters | 26 |

| | | |
|-----------------------|---|----|
| 8.2.1 | Character set and coding | 26 |
| 8.2.2 | Justification of characters | 26 |
| 8.2.3 | Volume Header Label Set (VOL1) | 26 |
| 8.2.4 | File Header Label Set (HDR1 to HDR2) | 28 |
| 8.2.5 | User File Header Label Set (UHL1 to UHL8) | 31 |
| 8.2.6 | End of Volume Label Set (EOV1 to EOV2) | 32 |
| 8.2.7 | End of File Label Set (EOF1 to EOF2) | 33 |
| 8.2.8 | User File Trailer Label Set (UTL1 to UTL8) | 35 |
| 9 | Levels of interchange (only a-characters) | 36 |
| 9.1 | Level 1 | 36 |
| 9.2 | Level 2 | 36 |
| 9.3 | Level 3 | 36 |
| 9.4 | Level 4 | 36 |
| 10 | Requirements for the description of systems | 36 |
| 11 | Requirements for an originating system | 37 |
| 11.1 | Requirements for an originating system for a-characters | 37 |
| 11.1.1 | General | 37 |
| 11.1.2 | Files | 37 |
| 11.1.3 | Labels | 37 |
| 11.1.4 | Restrictions | 39 |
| 11.2 | Requirements for an originating system for e-characters | 39 |
| 11.2.1 | General | 39 |
| 11.2.2 | Files | 39 |
| 11.2.3 | Labels | 39 |
| 12 | Requirements for a receiving system | 40 |
| 12.1 | Requirements for a receiving system for a-characters | 40 |
| 12.1.1 | General | 40 |
| 12.1.2 | Files | 41 |
| 12.1.3 | Labels | 41 |
| 12.1.4 | Restrictions | 42 |
| 12.2 | Requirements for a receiving system for e-characters | 42 |
| 12.2.1 | General | 42 |
| 12.2.2 | Files | 43 |
| 12.2.3 | Labels | 43 |
| Annex A (informative) | Code tables for a-characters | 45 |
| A.1 | a-characters | 45 |
| Annex B (normative) | Code Tables for e-characters | 46 |
| B.1 | e-characters | 46 |
| Annex C (informative) | Initialized volumes | 47 |
| C.1 | Purpose | 47 |
| C.2 | Specification | 47 |