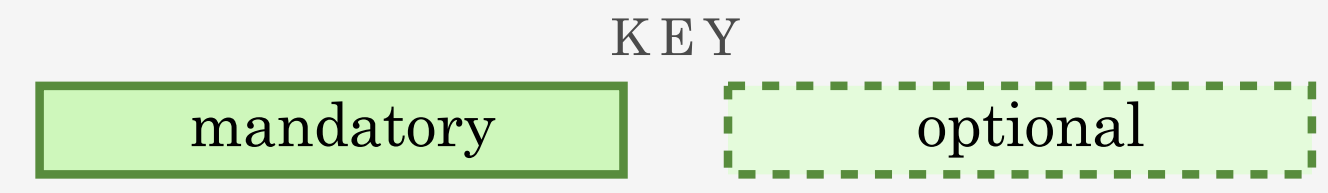
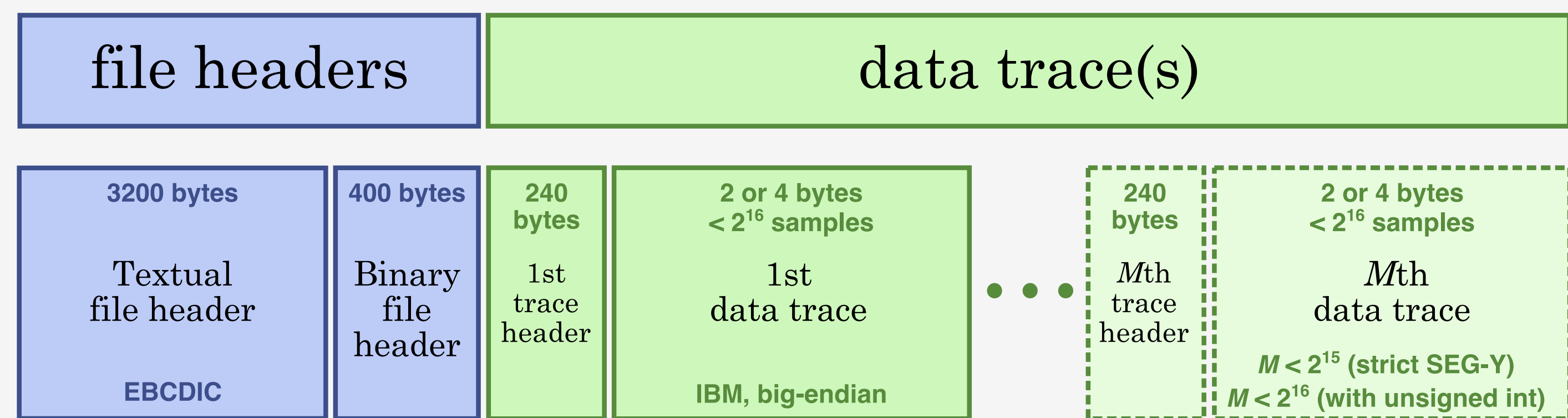


SEG-Y seismic data exchange format

Rev

0
1975



Changes from Rev 0 to Rev 1

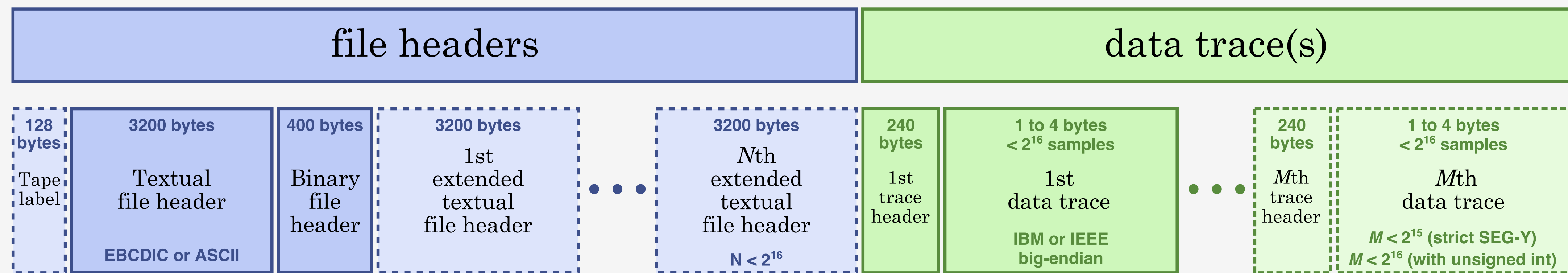
- File may be written to any medium resolvable to a stream of variable length records.
- Data word formats expanded to include IEEE 32-bit float, and 8-bit integers.
- Some additional fields in the binary file header and trace headers, others clarified.
- Textual file header can be ASCII encoded.
- Extended textual file header introduced, using a stanza layout.
- Trace identification expanded, and engineering conversions introduced.
- Note that little-endian byte ordering is not compliant with Rev 0 or Rev 1.

What is SEG-Y?

- Widely adopted binary file standard for seismic data, especially industrial seismic reflection data.
- Maintained by the SEG Technical Standards Committee.
- Updated to accommodate high-capacity media and trends in seismic acquisition, such as 3D, time lapse, very high trace-densities, and microseismic monitoring.
- Files contain 2 or more file headers, one textual and one binary, followed by one or more data traces, each with one or more headers.
- Latest version, SEG-Y Rev 2, was ratified in April 2017.
- SEG-Y is not intended as a field recording format; see the SEG-D and SEG-2 formats.

Rev

1
2002



Changes from Rev 1 to Rev 2

- Support for little-endian byte ordering, and pairwise byte-swapping.
- Provision for up to 65 535 additional trace headers; bytes 233–240 for names.
- Up to $2^{32} - 1$ samples/trace and traces/record, and $2^{64} - 1$ traces/line or traces/file.
- Arbitrarily large or small sample intervals.
- Additional sample formats, including IEEE 64-bit floats.
- Microsecond precision in time and date stamps.
- Additional precision on coordinates, depths, elevations, and more CRS support.
- Extended textual file header stanzas must start at 3200-byte boundaries.
- Stanzas may appear after the last data trace in a data trailer.
- Flexible trace header mapping via extended textual file header definition.
- XML allowed in extended textual file header and data trailer.

Rev

2
2017

