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Press release

Contact

Lucyna Kryla-Straszewska
Geomatics and Metocean Manager
lks@iogp.org

IOGP releases version 1.1 of User Guide for P1/11 Geophysical position data exchange format

(London, 17/08/2018) The International Association of Oil and Gas Producers (IOGP) has released version 1.1 of its User Guide for the P1/11 Geophysical position data exchange format.

The User Guide is a companion document to the OGP P1/11 Geophysical position data exchange format description (IOGP report number 483-1). It provides additional guidance and detail around the writing, application and use of the OGP P1/11 format, and the user is encouraged to refer to both documents when writing or reading P1/11 files.

This User Guide is intended to provide context, guidance and examples (metadata, geodesy and position data) to demonstrate various implementations of the format and does not attempt to duplicate the complete format description, although there is some overlap in content.

Section 1 is a non-technical discussion designed for users who are new to the concept of position data exchange formats. It describes the versatility of the P1/11 format, with several examples of the different uses to which the format can be put.

Section 2 is a detailed technical discussion of the P1/11 format designed for those who write, read or QC the format.

As several of the P1/11 record definitions are common with the OGP P2/11 Positioning data exchange format, this User Guide applies equally to the common records in this other format.

Originally released in 2012 to replace the UKOOA P1/90 and P2/94 formats, the version 1.1 incorporates industry feedback from the first release and provides greater flexibility – without changing the fundamental format structure. For example, the format now enables the recording of land and OBC formats and additional peripheral sensor, or QC data. It also

includes enhancements such as: handling channel grouping, 'virtual' position objects such as mid-points, global pre-plot attributes, event-based attributes, receiver and source relation records.

The updated OGP P1/11 v1.1 User Guide, along with format descriptions OGP P1/11 v1.1, OGP P2/11 v1.1, is available from IOGP Bookstore at <https://www.iogp.org/bookstore>.

History of the formats

Since the 1980s, 'P' formats have been used to record marine seismic position data. Originally developed by UKOOA, they were widely adopted by the industry. In 2006, IOGP's Geomatics Committee took ownership of the formats.

Version 1.0 of the P1/11 and P2/11 formats, released in 2012, featured a "Common Header" across all IOGP 'P' formats. This includes a rigorous definition of Coordinate Reference Systems, as well as metadata applicable to each format, supporting the fundamental objective of ensuring the geodetic integrity of position data. It also featured enhanced functionality, in line with advances in seismic data acquisition techniques, allowing greater flexibility in dealing with survey configurations. An extensible format allows accommodation of future innovations and requirements, as well as storage and exchange of position data from other non-seismic surveys.

Unlike the original formats, introduced as a standard positioning record for marine seismic data acquisition, the P1/11 format revision incorporates land seismic operations. With the addition of full relational records (receiver and source), the latest version (P1/11 V1.1) incorporates all forms of seismic acquisition (2D, 3D, 4D, multi-component) in all environments. It is the only industry data exchange format for positioning data that can be used on any survey in any situation.

In addition to replacing the former UKOOA formats, the P1/11 format also replaces the ageing SEG-P1 format.

About IOGP

The International Association of Oil & Gas Producers (IOGP) is the voice of the global upstream industry. Oil and gas continue to provide a significant proportion of the world's energy to meet growing demands for heat, light and transport.

Our Members produce 40% of the world's oil and gas. They operate in all producing regions: The Americas, Africa, Europe, the Middle East, the Caspian, Asia and Australia.

We serve industry regulators as a global partner for improving safety, environmental and social performance. We also act as a uniquely upstream forum in which our members identify and share knowledge and good practices to achieve improvements in health, safety, the environment, security and social responsibility.