



Exploration & Production

GENERAL SPECIFICATION

GEOINFORMATION

GS EP GIN 121

**Seismic Data Identifiers,
Naming conventions for Topographic and Navigation
Data files**

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Rev.	Date	Notes

Owner: EXPLO/IGEO

Managing entity: EXPLO/IGEO/DER



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1. Scope

The object of this specification is to describe thoroughly TOTAL seismic surveys Identifiers and associated Topo and Nav files identifiers.

These identifiers are to be used in all Geosciences databases.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Standards

Reference	Title
ISO 3166-1	Codes for the representation of names of countries and their subdivisions. Part1: Country codes.

Professional Documents

Reference	Title
Not applicable	

Regulations

Reference	Title
Not applicable	

Codes

Reference	Title
Not applicable	

Other documents

Reference	Title
Not applicable	



Total General Specifications

Reference	Title
Not applicable	

3. Overview

Seismic surveys numerical data are of 5 types:

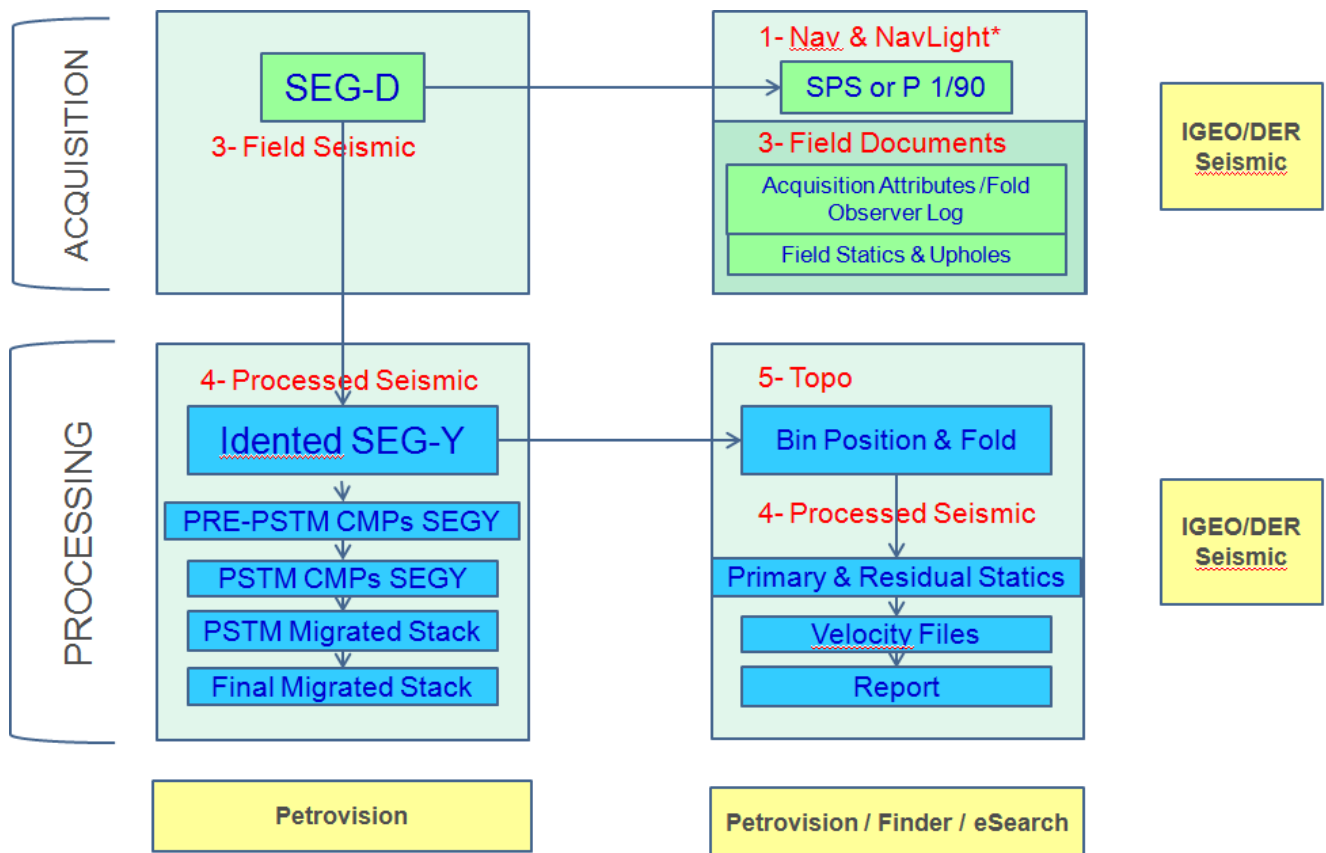
1. Navigation data (NAV): the field position of all elements constituting the acquisition layout (source, geophones, etc...)
2. Field documents (operator report, statics, etc...)
3. Field seismic records (also called raw data)
4. The processed seismic data: several versions may exist: original processing, first reprocessing, second reprocessing, etc.
5. Topographic data (TOPO) or position of the stacked data after processing

Types 1 and 5 are referred to as positioning data, while 2, 3 and 4 make up actual seismic data.

Data archiving management:

These data are references in 2 data bases at headquarters:

- **FINDER** containing the TOPO (5) information
- **PETROVISION** referencing all data (type 1 through 5) as well as the path leading to the actual storage location of these data sets:



*NavLight: SP position offshore, SP and traces onshore

4. Topo identifier (Topo Id): FINDER data base

In FINDER database, a **unique TopoID** identifier is **attached to all positioning files referring to the same survey**.

The **Topo ID** is written: **PPYYSSSS** (8 characters)

PP = country (ISO 3166-1)

YY = year

SSSS = sequential number in that year

<i>Example :</i>	EC	03	0625
	Ecuador	indexing performed in 2003	625 th file open that very year

Code used in naming the NAV and TOPO files (IGEO/DER internal usage)

The names of NAV and TOPO files are standardized and made of 9 characters:

The first 8 characters correspond to the TopoID to which they refer.



These 8 characters are followed by a very specific letter:

- o Regarding the Nav files, this letter will exclusively be:

In this example, the Topo ID = EC030625

- Antenna Position, EC030625A
- Echo Sounder, EC030625E
- Geophone, EC030625G
- Receiver Group, EC030625R
- Centre of Source, EC030625S
- Tailbuoy Position, EC030625T
- Vessel Reference Point, EC030625V
- Unknown. EC030625X

- o Regarding the Topo files, this letter will exclusively be :

- for 2D : Common Mid Point, EC030625C
- for 3D : Q for bin center EC030625Q

5. Seismic Identifier or Seismic ID: PETROVISION database

In the reference database for surface seismic data PETROVISION, a unique seismic identifier, called **SEISMIC ID**, is affected to:

1. The original acquisition seismic, as well as to its own navigation data and all related field documents
2. The various processing applied to these records

The **SEISMIC_ID** is composed of **PPZZTXYYCCSS (12 characters)** where

PP = country ([ISO 3166-1](#))

ZZ = region

T = Type of data (**A** Acquisition; **T** Processing; **R** Reprocessing)

X = **2** for 2D, **3** for 3D, **4** for 4D , **E** for site survey.

YY = Year

CC = Contractor

SS = Sequence within the year

Example :	EC	NP	A	2	91	SD	01
	Ecuador	Geographical Zone NP	These are Acquisition data	2D	Year of acquisition of the survey	Contractor Seismic Delta	Sequential N°



Nota :

In all seismic data related contracts, the reference IDA or IDT code will be mentioned at all times:

IDA = Acquisition Seismic Identifier = will be coded PPZZAXYYCCSS

IDT = Processing Seismic Identifier = will be coded PPZZ(**T or R**)XYCCSS

FINDER TOPO ID is referenced in PETROVISION but PETROVISION IDA and IDT SEISMIC ID are not referenced in FINDER.

PETROVISION is managing the links between Acquisition SEISMIC ID, Processing SEISMIC ID, Reprocessing SEISMIC ID, Merged SEISMIC ID, etc...

EXPLO/IGEO/DER/DS are responsible of the corporate seismic database, and as such, the only entity allowed issuing the above identifiers.