

GENERAL SPECIFICATION

SURVEYS

GS EP GEO 404

GIS requirements for Infrastructure Data Management
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1. Scope

1.1 Purpose

This specification defines the common minimum GIS data standard required by Company for geographic and georeferenced data describing facilities and assets implicated in Company operated production or processing of hydrocarbons, both offshore and onshore, including but not limited to:

- Offshore production platforms
- Floating facilities and associated mooring structures
- Subsea production systems
- Pipelines and associated branching and termination structures
- Cables and control umbilicals
- Onshore plant and facilities and associated infrastructure (access, accommodation etc.)
- Associated safety zones and restricted areas.

Hereafter this minimum GIS data standard is referred to in this specification as Company's Infrastructure Data Model (IDM).

1.2 Field of application

This standard is applicable to relevant data deliverables requested by Company from Contractor as part of:

- Company Field Development Projects as explicitly defined in [GS EP GEO 402](#)
- Miscellaneous Company GIS Projects or Studies e.g. GIS data conversion projects and regional data synthesis studies.

2. Reference documents

The reference documents listed below form an integral part of this General Specification.

External Documents

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and addendums, is the latest revision published at the effective date of this document.

Reference	Title
EPSG Guidance Note 5 ISO 19125-1	Coordinate Reference System Definition - Recommended Practice Geographic information - Simple feature access - Part 1: Common architecture

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Total General Specifications

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and addendums, is the latest revision published.

Reference	Title
GS EP GEO 402	GIS Requirements for Field Development Project

3. Terms and Definitions

For the purpose of this document, the following terms and definitions apply:

CRS	Coordinate Reference System
ESRI®	Environmental Systems Research Institute
GIS	Geographical Information System
ID	Identifier
IDM	Infrastructure Data Model
QA / QC	Quality Assurance / Quality Control
TOC	Table of Contents
UML	Unified Modelling Language
XML	eXtensible Markup Language

4. Deliverables

4.1 Resources provided by Company to Contractor

The following digital documents and materials shall be transmitted by Company to Contractor:

- The official Project/Study CRS and associated geodetic parameters in .pdf document format
- An *IDM GIS template data package* consisting of:
 - An IDM GIS template directory structure

This is a standard Windows directory structure that Company uses to store and organise all Project/Study IDM GIS materials, source data and associated resources.
 - Company IDM GIS Data Dictionary

This is the Company description of the GIS Infrastructure Data Model in Microsoft® Excel .xlsx file format. The spreadsheet describes in detail each of the feature classes in the data model including attribute table fields and restricted domain values.