

PPDM

# PPDM Version 3.8 Roadmaps

*The PPDM Association is a not-for-profit organization that develops and maintains data management standards for the Resource Industry.*

*With over 100 member companies comprised of petroleum businesses, governments, data vendors, software vendors and service firms, the Association provides a roundtable process to bring experts together to build useful, business-driven data management standards.*



PPDM™

# Inside This Issue

## 3 About the PPDM Association

### Support Modules

- 4 **Additives Catalogue:**  
Describes drilling additives used during field operations
- 4 **Areas:** Areas of any type, such as geographic, jurisdictional or project.
- 4 **Entitlements:** Describe the rights you have to data and information.
- 4 **Equipment:** Describe equipment used in the field, lab or office.
- 4 **Finances:** Summarize cost information from your accounting systems.
- 4 **Rate Schedules:** Outline fee schedules for functions and services.
- 4 **Source Documents & Bibliographies:**  
Bibliographic reference for source documents.
- 4 **Spatial Descriptions:** Geographic and other location information for business objects.
- 4 **Work Orders and Requests:** Tracks work orders that support business operations.
- 5 **Business Associates:** Companies, people or organizations you do business with.
- 5 **Coordinate Systems:** Geographic and cartographic spatial reference systems.
- 5 **Products and Substances:** Composition of hydrocarbons and other substances.
- 5 **Projects:** Capture and track task lists for operational activities.

### Data Management and Units of Measure

- 6 **Data Management:** Business rules, mappings, audit histories, QC history, metrics and more.
- 7 **Unit of Measure:** Supports measured values in PPDM, and conversions between unit systems.
- 7 **Volume Regimes:** Hydrocarbon volumes by temperature and pressure regimes.

### Stratigraphy and Lithology

- 8 **Stratigraphy:** Detailed descriptive information about stratigraphic units, such as formations.
- 8 **Lithologic Samples:** Sample collection, preparation and usage summaries.
- 9 **Lithology:** Lithologic characteristics from rock analysis, such as color, porosity, grain size etc.
- 9 **Sample Analysis:** Supports water, oil, gas and sieve screen analysis details.

### Production and Reserves

- 10 **Fields:** Summary information about fields.
- 10 **Pools:** Summary information about geologic or regulatory pools.
- 10 **Production Entities:** Business objects that are directly involved in hydrocarbon production.
- 10 **Production Related Facilities:** Describe facilities such as pipelines, storage tanks, or batteries.
- 10 **Production Reporting:** Volumes reporting for all products, time periods, activities or methods.
- 10 **Production Strings:** Describes the conduit between a hydrocarbon source and the surface.
- 11 **Reserves Reporting:** Summarizes reserves information, including forecasts.
- 11 **Reporting Hierarchies:** Aggregated reporting, such as production reporting or reserves forecasts.

### Wells

- 12 **Wells:** Detailed life cycle information about wells and well bores.

### Product Management and Classifications

- 14 **Classification Systems (Taxonomies):**  
Faceted taxonomies for classifying records.
- 15 **Records, Product and Information Management:**  
Fully functional librarian module.

### Seismic

- 16 **Seismic:** Life cycle management for seismic, from acquisition to divestment.

### Operations Support

- 18 **Applications:** Requests to obtain authorization to do work or complete an operation.
- 18 **Notifications:**  
Details about notifications to partners or other parties.
- 18 **BA Licenses:** Authorization for general operations, such as aerial surveys.
- 18 **Consultations & Negotiations:**  
Discussions between various parties.
- 18 **Contests and Disputes:** Summary information about legal disputes and their outcomes.
- 18 **Facility Licenses:** Regulatory authorizations for facility related operations.
- 18 **Consents:** Non-regulatory agreements between parties to conduct operations.
- 18 **Well Licenses:** Regulatory authorizations for well related operations.
- 18 **Seismic Licenses:** Regulatory authorizations for seismic related operations.
- 19 **Support Facilities:** Descriptive information about support facilities such as rigs, roads or vessels.
- 19 **Health, Safety and Environment:**  
Incident reporting summaries.

### Land and Legal Management

- 20 **Contracts and Legal Agreements:** Legal documents that govern operations.
- 20 **Obligations:** Conditions that must be fulfilled, such as fees to be paid or work to be done.
- 20 **Interest Sets and Division of Interests:**  
Partnerships and division of interests.
- 20 **Instruments:** Documents that physically document an interest or describe a legal entity.
- 20 **Restrictions:**  
Environmental or operational limitations on operations.
- 21 **Land Rights:** Rights held to an area of the earth, onshore or offshore, surface or mineral.

### Paleontology and Biostratigraphy

- 22 **Paleontology:** Results of a paleontological study of fossils found in lithologic samples.
- 22 **Interpretation**
- 22 **Ecozones and Environments:** Paleontological ecozones or environment definitions.
- 23 **Fossils:** Describes fossils and their discovery during analysis.

The PPDM Association was formed in 1989 by a consortium of industry companies and incorporated as a Not-for-Profit Society in 1991.

Visit us at [www.ppdm.org](http://www.ppdm.org) for information about joining our community.



## How PPDM Is Used

Our members use PPDM Data Models in many ways to satisfy their business requirements:

- E&P companies use PPDM in corporate Master Data Management strategies, so that open standards form the core of their data management strategy.
- Members use PPDM as the System of Record for key corporate information systems, so that essential company data is managed in an open standard form, and is not dependent on proprietary vendor specifications.
- E&P companies use PPDM as the data store for a transactional or analytical system, so that working data stores can communicate effectively with each other for life cycle management strategies.
- Software vendors use PPDM to ensure their products meet industry standards, and to shorten their time to market with a high quality product or service.
- In GIS strategies, PPDM allows spatial data to share authenticated attribute information with authorized systems.

## About The PPDM Association

Through the PPDM Association, world-wide industry experts gather together in a collaborative, round table approach to engineer business driven, practical data management standards that will meet today's and tomorrow's needs. PPDM Version 3.8 is an open, practical and usable standard that is supported by over 100 members.

Supported by strong volunteer participation, the PPDM Association's low membership fees encourage a large number of companies involved in the oil and gas business to develop data management standards through a structured, open process. Each member is encouraged to be an active participant in the evolution of PPDM standards and participates in determining the business acceptability of each model.

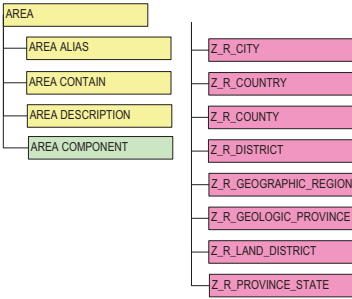
With over 1700 tables in more than 52 subject areas, PPDM Version 3.8 is robust, flexible and powerful. Its module based structure allows users to implement just a few tables or the entire model.

The PPDM Association provides classroom and workshop based training that will prepare teams to understand and implement the PPDM open standards solution.

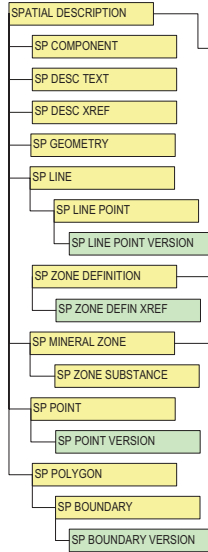
# PPDM 3.8 Roadmaps

## Support Modules

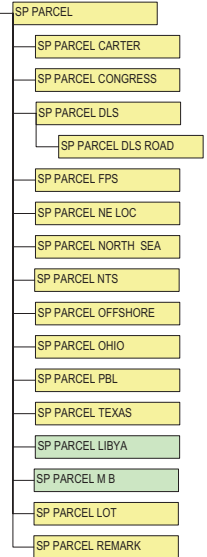
### Areas



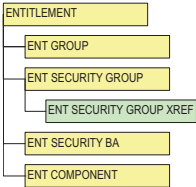
### Spatial Locations



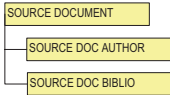
### Spatial Parcels



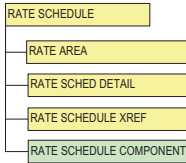
### Entitlements



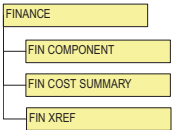
### Source Documents Bibliography



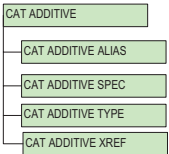
### Rate Schedules



### Finances

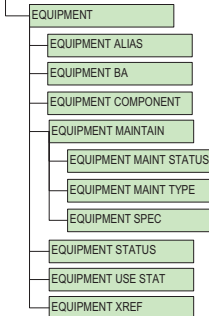


### Additives

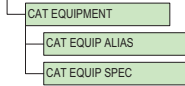


### Equipment

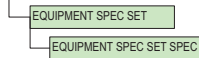
#### Real Equipment



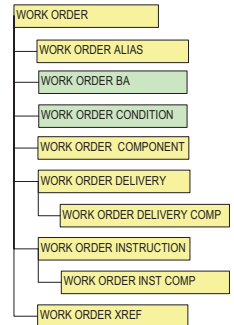
#### Catalog Equipment



#### Equipment Specs



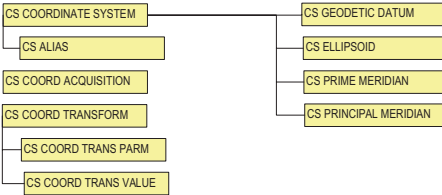
### Work Orders



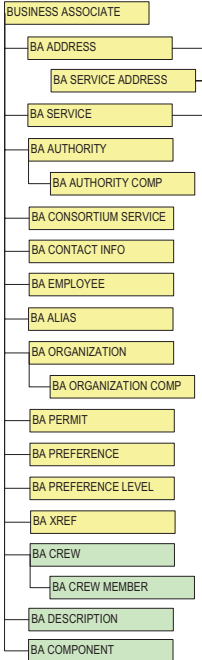
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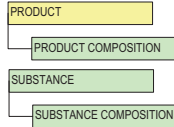
## Coordinate Systems



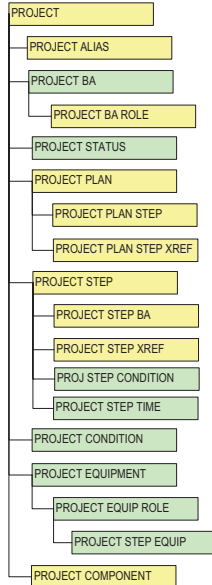
## Business Associates



## Products and Substances



## Projects



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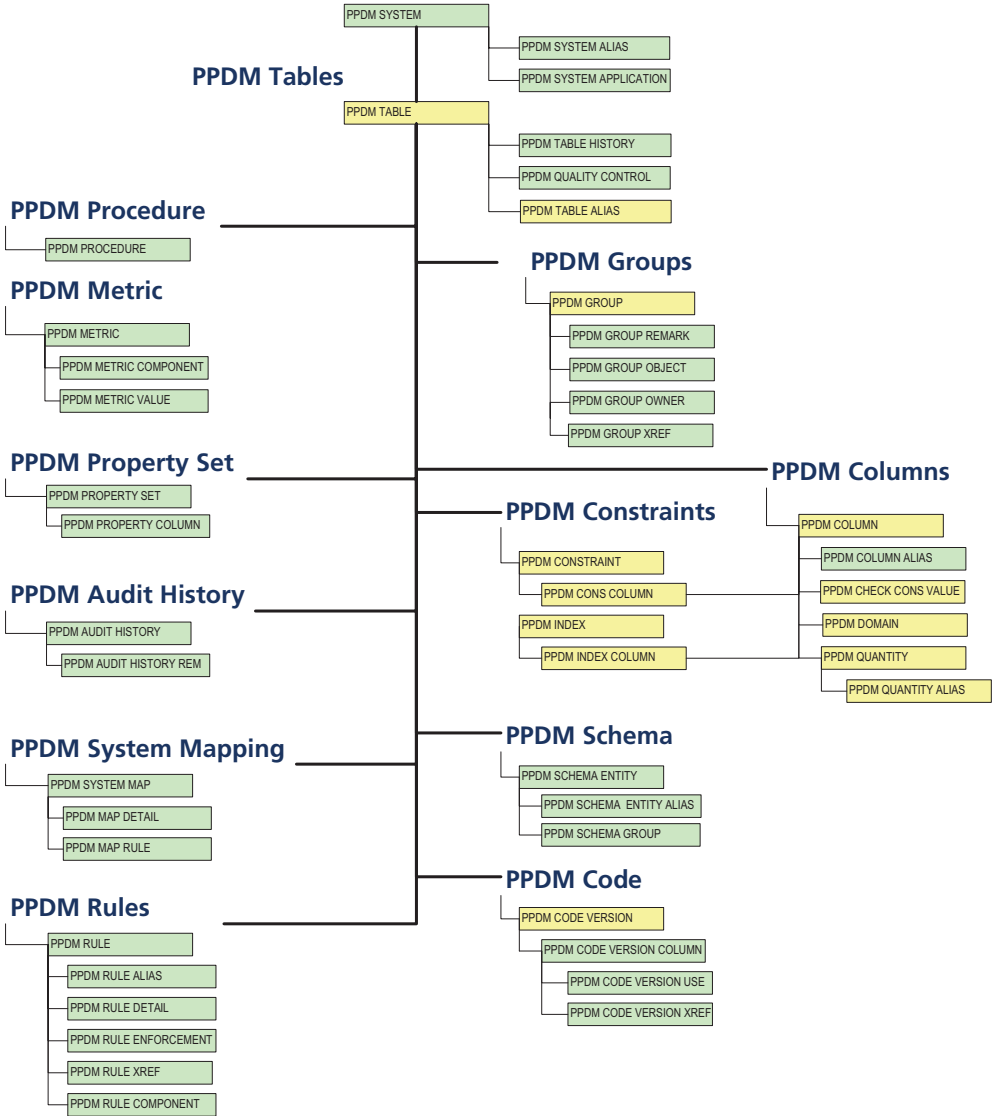
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# PPDM 3.8 Roadmaps

## PPDM Meta Model and Units of Measure

### Data Management



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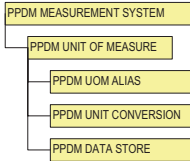
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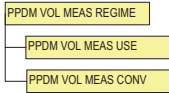
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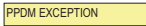
## Units of Measure



## Volume Conversions



## Exception Management

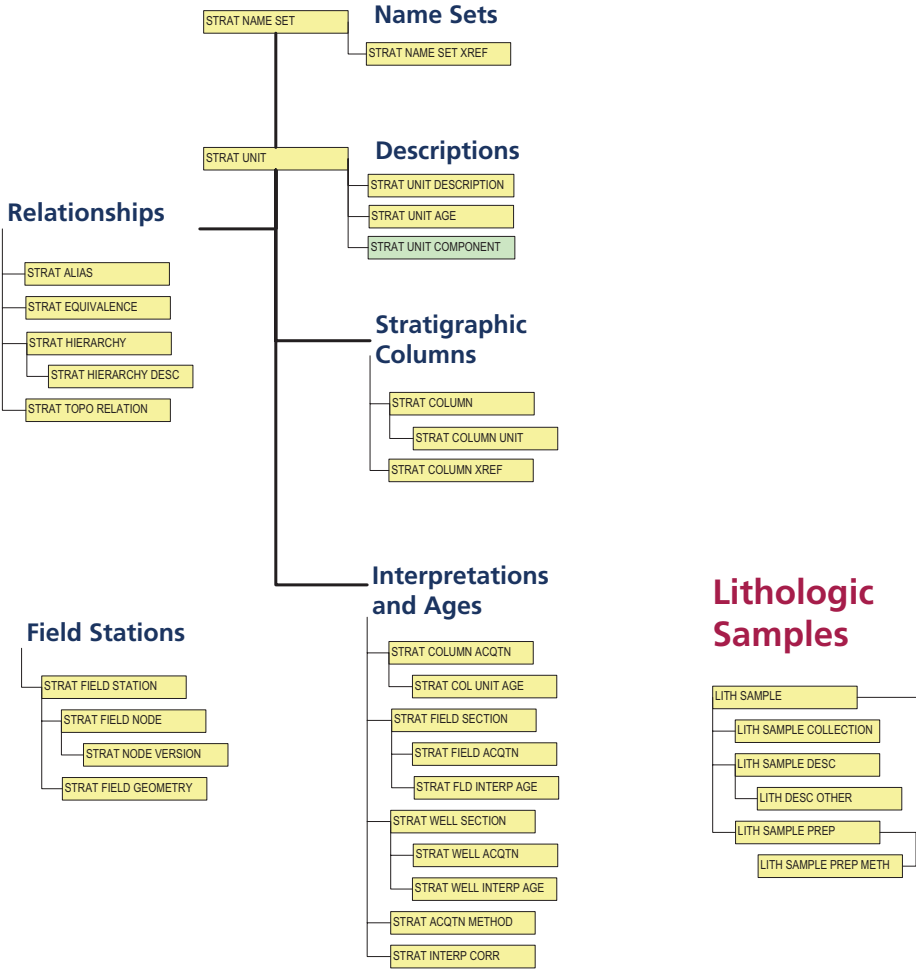


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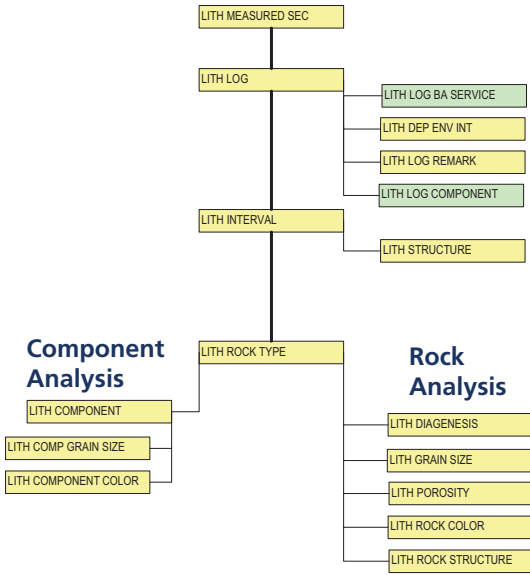
## Stratigraphy



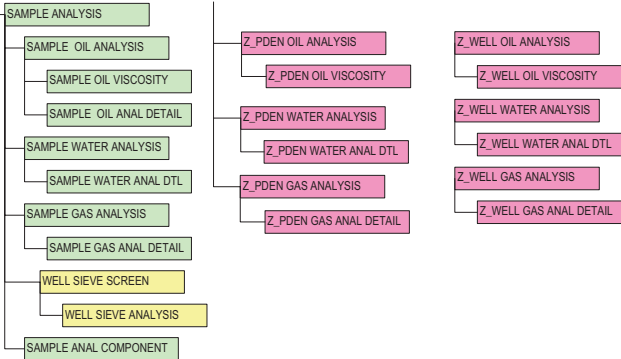
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## Lithology



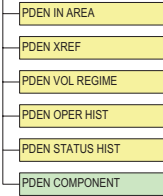
## Sample Analysis



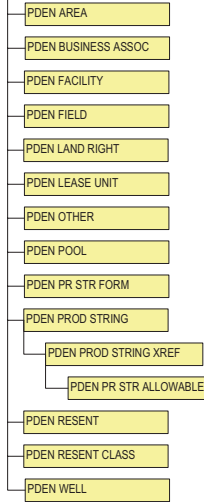
# PPDM 3.8 Roadmaps

## Production Reporting

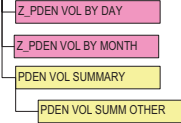
### PDEN General Information



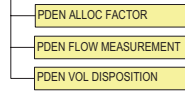
### PDEN Subtypes



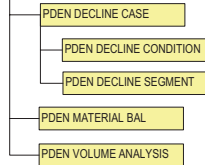
### PDEN Volumes



### PDEN Distribution

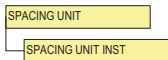


### PDEN Reserves Analysis

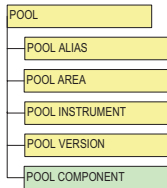


## Production Entities

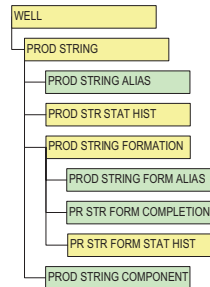
### Spacing Units



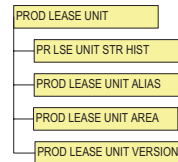
### Pools



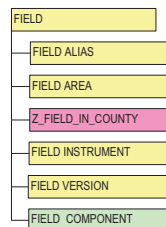
### Production Strings



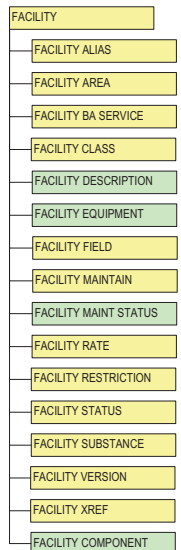
### Production Lease Units



### Fields



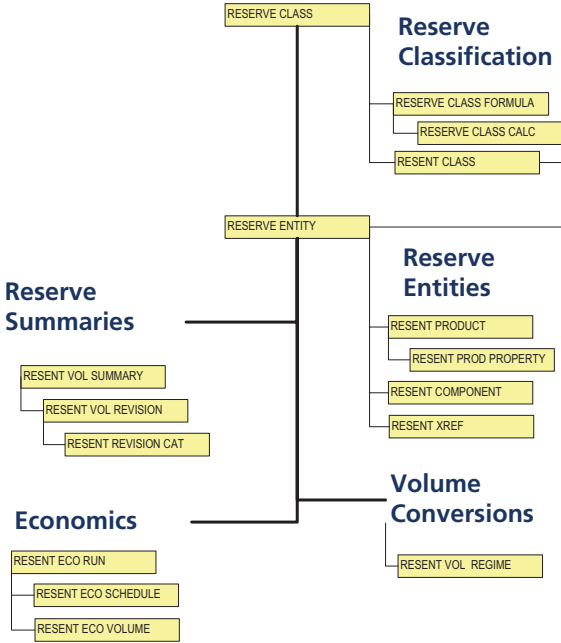
### Facilities



### LEGEND

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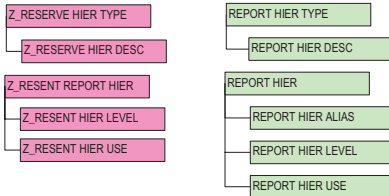
# Reserves Reporting



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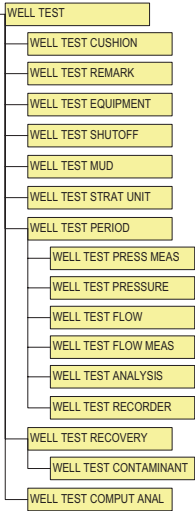
# Reporting Hierarchies



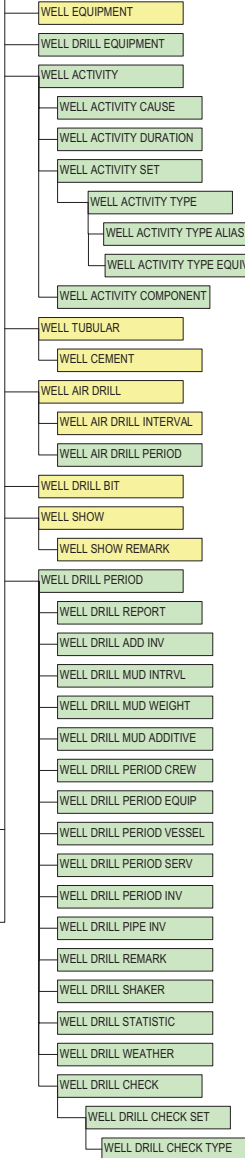
# PPDM 3.8 Roadmaps

## Wells

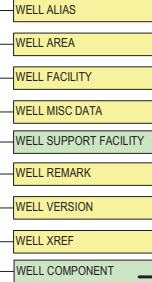
### Well Tests



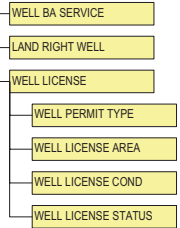
### Well Operations



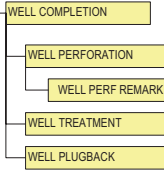
### Well General Information



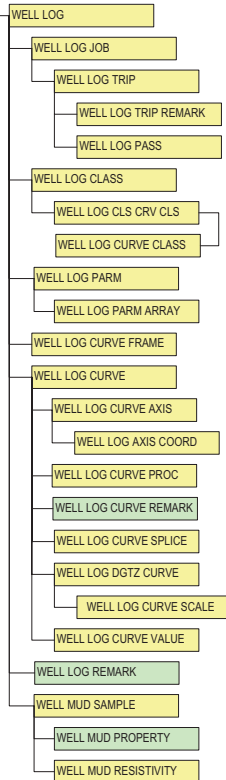
### Well Agreements



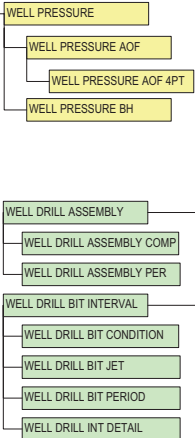
### Well Completions



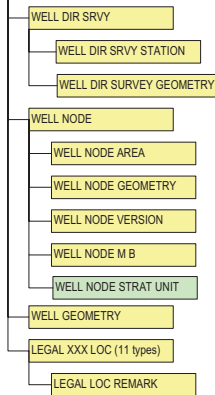
### Well Logs



### Well Pressures



### Well Locations



### LEGEND

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### Well Cores

- WELL CORE
- WELL CORE REMARK
- WELL CORE DESCRIPTION
  - WELL CORE STRAT UNIT
- WELL CORE SHIFT
- WELL CORE ANALYSIS
  - WELL CORE ANAL REMARK
  - WELL CORE ANAL METHOD
  - WELL CORE SAMPLE ANAL
    - WELL CORE SAMPLE RMK
    - WELL CORE SAMPLE DESC

### Well Status

- WELL STATUS
- PROD STRING
- PROD STR STAT HIST
- PR STR FORM STAT HIST

### Well Horizontal Drilling

- WELL HORIZ DRILL
- WELL HORIZ DRILL KOP
- WELL HORIZ DRILL POE
- WELL HORIZ DRILL SPOKE

### Well Interpretations

- WELL POROUS INTERVAL
- WELL PAYZONE
- STRAT WELL SECTION
- SEIS VELOCITY
- ZONE
  - WELL ZONE INTERVAL
  - WELL ZONE INTRVL VALUE

### Well Log Dictionaries

- WELL LOG DICTIONARY
  - WELL LOG DICT ALIAS
  - WELL LOG DICT BA
  - WELL LOG DICT PROC
  - WELL LOG DICT PARM
    - WELL LOG DICT PARM CLS
      - WELL LOG PARM CLASS
    - WELL LOG DICT PARM VAL
  - WELL LOG DICT CURVE
    - WELL LOG DICT CRV CLS
      - WELL LOG CRV CLS XREF

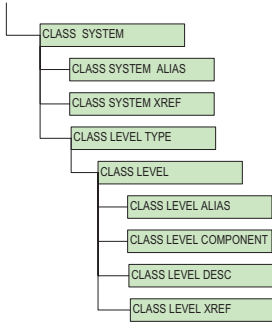
- Z\_WELL EVENT
- Z\_WELL TOUR OCCURRENCE
- Z\_WELL DRILL MEDIA INTRVL
- Z\_WELL DRILL MEDIA WEIGHT
- Z\_WELL DRILL STATUS

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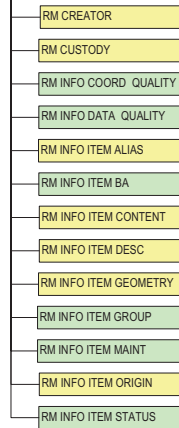


# PPDM 3.8 Roadmaps

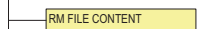
## Classification Systems (Taxonomies)



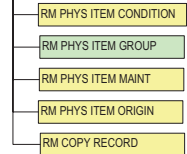
## Information Items



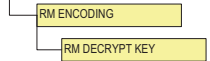
## File Content



## Physical Management



## Encoding



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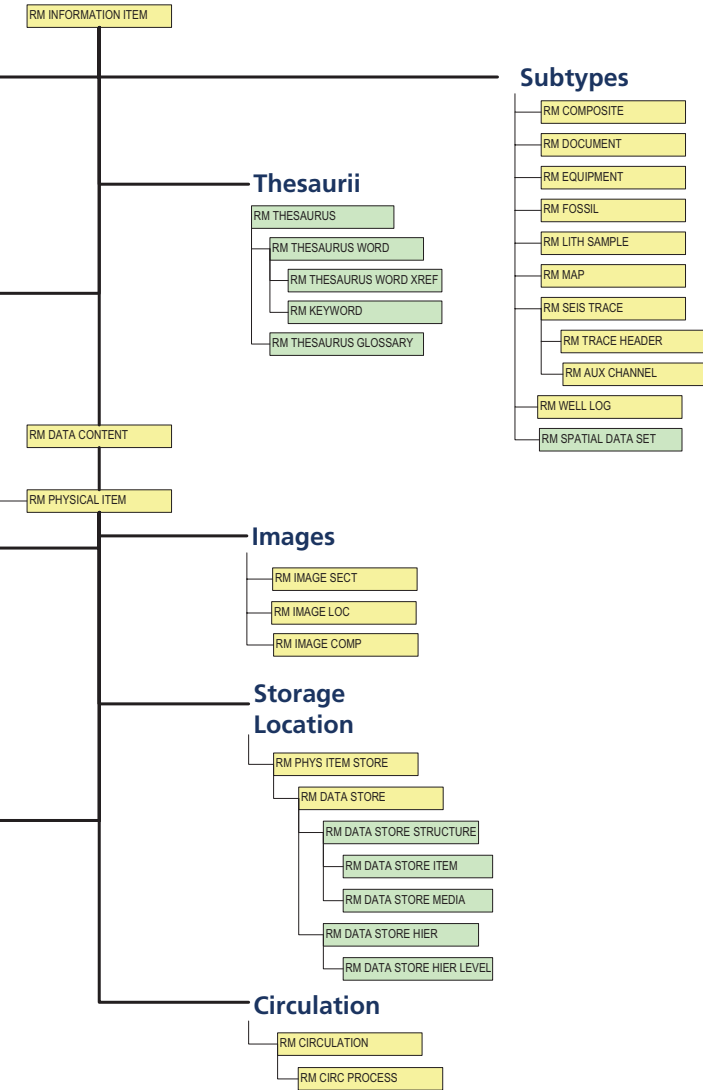
# Information and Product Management



## Neuralog

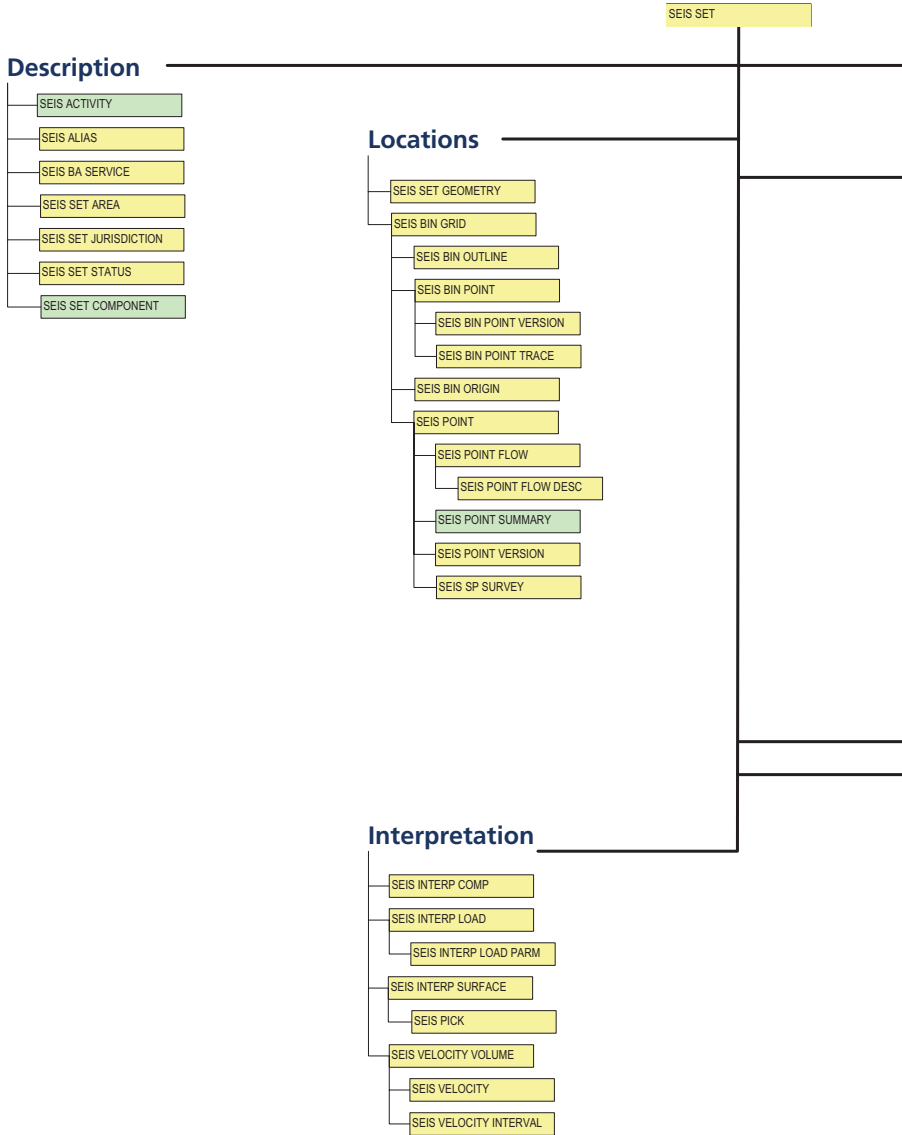
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# PPDM 3.8 Roadmaps

## Seismic



**LEGEND**

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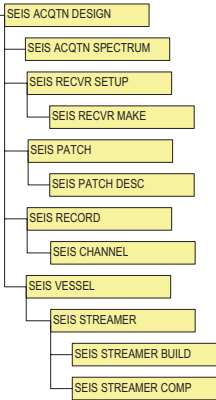


Data Management Consultants

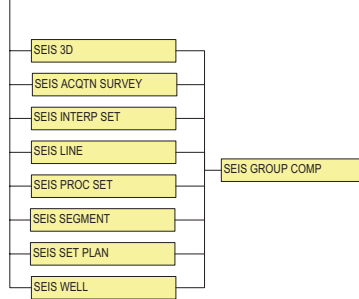
Fugro Data Solutions  
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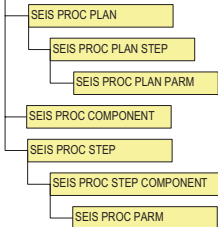
## Acquisition



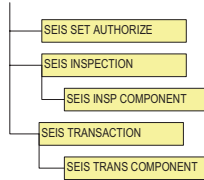
## Subtypes



## Processing



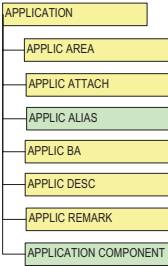
## Transactions



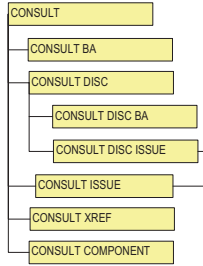
# PPDM 3.8 Roadmaps

## Applications and Approvals

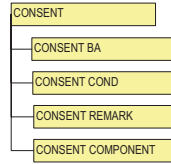
### Applications



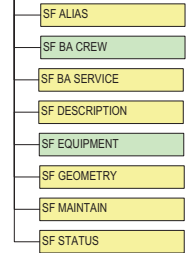
### Consultations



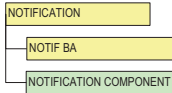
### Consents



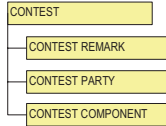
### Descriptions



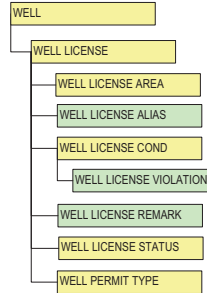
### Notifications



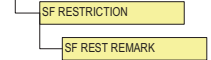
### Contests



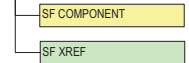
### Well Licences



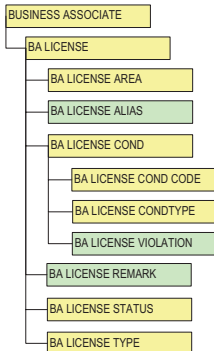
### Restrictions



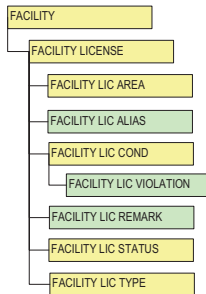
### Relationships



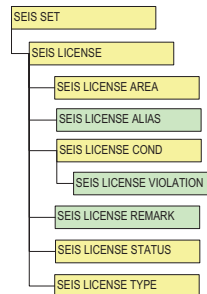
### Business Associate Licences



### Facility Licences



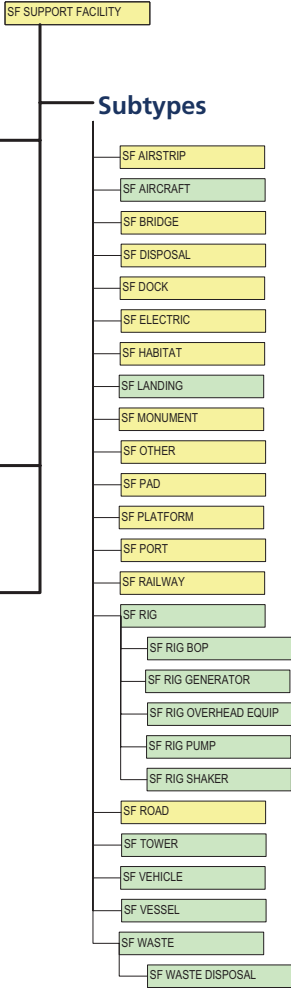
### Seismic Licences



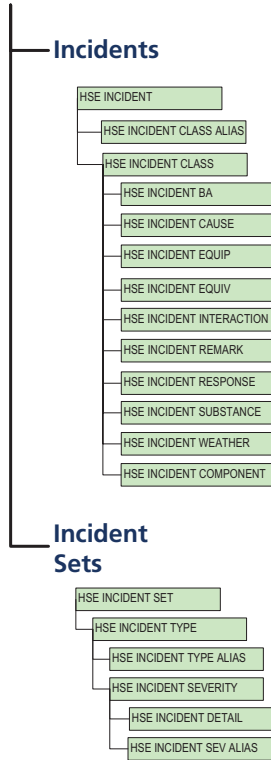
#### LEGEND

NEW TABLE	TABLE
DEPRECATED in 3.9	TABLE
IN PREV. VERSION	TABLE

# Support Facilities

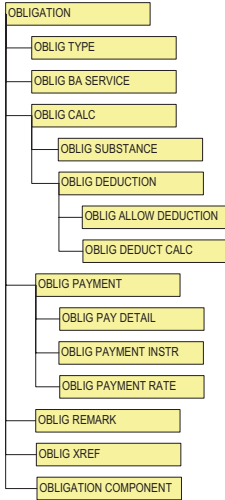


# Health Safety & Environment (EHS)

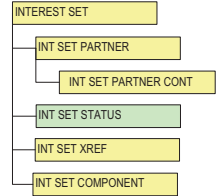


# PPDM 3.8 Roadmaps

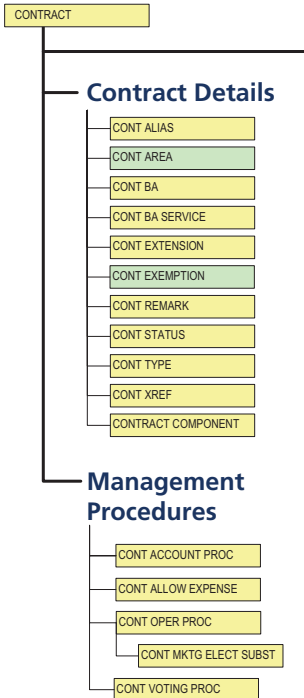
## Obligations



## Partnerships & Interest Sets

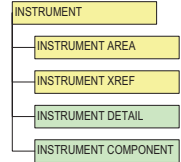


## Contracts

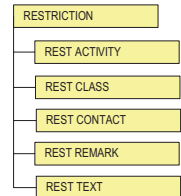


### Contract Provisions

## Instruments



## Restrictions



### LEGEND

NEW TABLE	TABLE
DEPRECATED in 3.9	TABLE
IN PREV. VERSION	TABLE

# Land Rights

LAND RIGHT

## Land Right Subtypes

- LAND AGREE PART
- LAND AGREEMENT
- LAND TITLE
- LAND UNIT
- LAND UNIT TRACT
- LAND TRACT FACTOR

## General Land Information

- LAND ALIAS
- LAND BA SERVICE
- LAND OCCUPANT
- LAND REMARK
- LAND SIZE
- LAND XREF

## Land Right Authorizations

- LAND RIGHT APPLIC
- LAND RIGHT BA LIC

## Land Status

- LAND STATUS
- LAND TERMINATION

## Land Relationships

- LAND AREA
- LAND RIGHT FACILITY
- LAND RIGHT FIELD
- LAND RIGHT INSTRUMENT
- LAND RIGHT POOL
- LAND RIGHT REST
- LAND RIGHT REST REM
- LAND RIGHT WELL
- LAND RIGHT WELL SUBST

## Land Acquisition

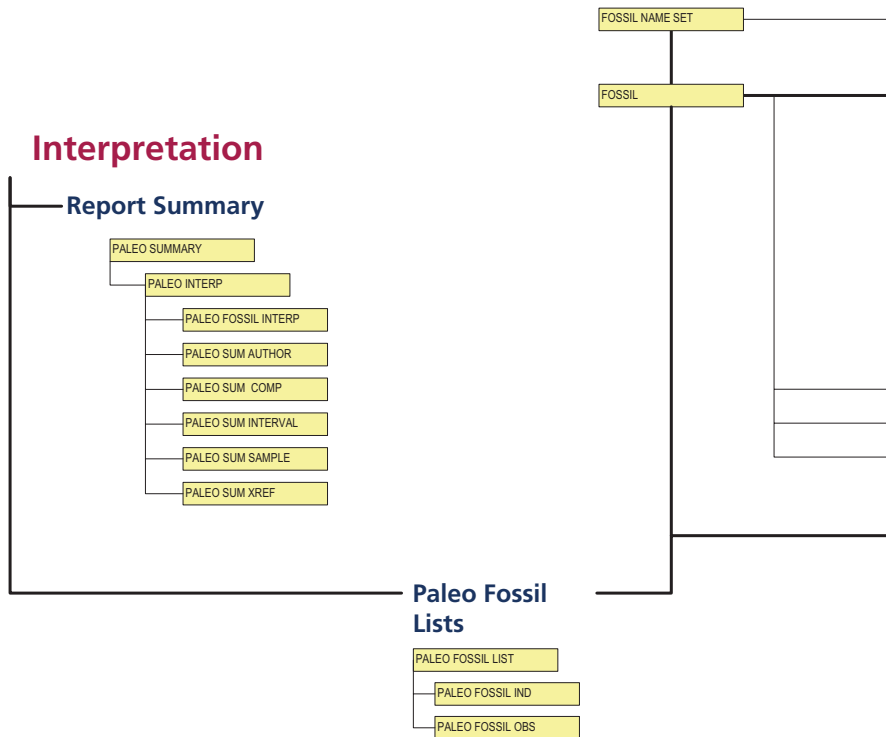
- LAND SALE
  - LAND SALE OFFERING
    - LAND SALE BID
    - LAND SALE WORK BID
    - LAND SALE BID SET BID
    - LAND SALE BID SET
  - LAND SALE BA SERVICE
  - LAND SALE OFFERING AREA
- LAND SALE FEE
- LAND SALE REQUEST
- LAND SALE RESTRICTION
  - LAND SALE REST REMARK
- LAND RIGHT COMPONENT



# PPDM 3.8 Roadmaps

## Paleontology

### Interpretation

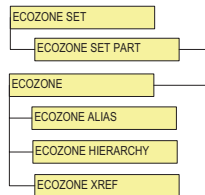


#### Report Summary

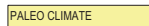
#### Paleo Fossil Lists

### Ecozones

#### Marine



#### Climates



#### LEGEND

NEW TABLE

TABLE

DEPRECATED in 3.9

TABLE

IN PREV. VERSION

TABLE

## Fossils

FOSSIL NAME SET FOSSIL

### Fossil Descriptions

FOSSIL AGE

FOSSIL DESC

FOSSIL DOCUMENT

### Fossil Relationships

FOSSIL ASSEMBLAGE

FOSSIL EQUIVALENCE

FOSSIL XREF

### Paleo Codes

PALEO OBS QUALIFIER

PALEO CONFIDENCE

PALEO THERMAL ALT IND

PALEO ABUND SCHEME

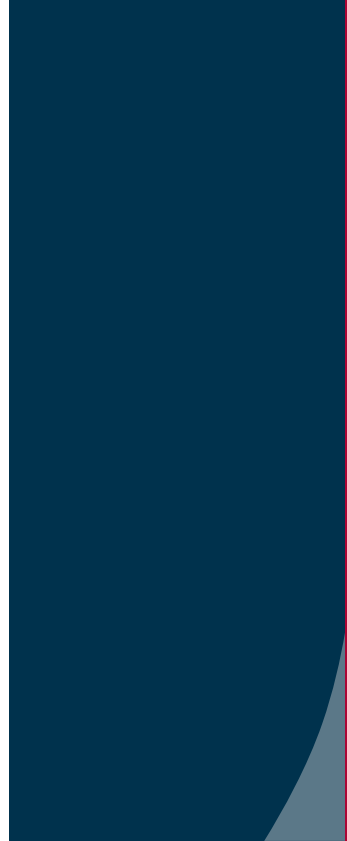
PALEO ABUND QUALIFIER

### Fossil Names

FOSSIL TAXON LEAF

FOSSIL TAXON ALIAS

FOSSIL TAXON HIER



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