



# Taxonomies

Product Sheet



## Finding data and information more easily

The Flare Taxonomies provide the most robust, comprehensive knowledge map of the E&P business available today. The Taxonomies are comprised of thousands of terms (valid values), relationships, synonyms and aliases to help E&P professionals tag, catalogue, publish and ultimately find their E&P information assets.

The Taxonomies can be licensed as a stand-alone product or integrated with Flare's Information Foundation modules.

### What is a Taxonomy?

A taxonomy is a hierarchical list used for classifying things. The Flare Taxonomies are designed to classify all kinds of E&P information but additionally they are associated to one another to create rich semantic relationships between the elements. These business relationships make the Flare Taxonomies much more effective than a simple hierarchy with controlled vocabulary and provide a unique and powerful way to represent knowledge.

### How can the Taxonomies help?

Flare's Oil and Gas Taxonomies can be used in many applications, to aid classification (assisted and automated), search, retrieval and navigation of information. Flare uses the taxonomies to help power the Catalog and Tracker. Other companies now use the taxonomies in applications such as Documentum, Livelink, SharePoint, and search engines such as FAST to help their companies leverage value from their information assets.

### Delivery platforms

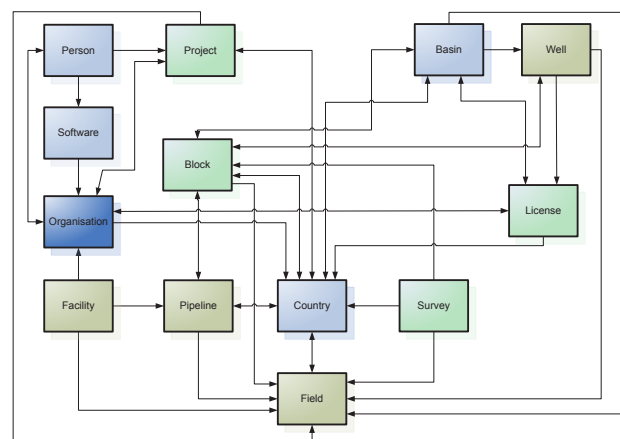
Flare's Oil and Gas Taxonomies can be delivered in a number of ways. Firstly, via the Flare application suite, which has been designed to incorporate and maximise the value of the Taxonomies. Alternatively, they could be delivered for use in other applications, for example in SharePoint.

### Asset classification - the asset taxonomy

Flare's asset relationship taxonomy supports the modeling business assets typically found in the E&P environment, such as wells, fields, licenses, and basins and is fully configurable to meet individual client requirements. For each asset the company standard name is used as well as aliases including industry names, UWIs and short names.

## Key Benefits

- Provides standard reference terms (values), with synonyms, for keywords, asset names and E&P deliverables to ensure long-term consistency and searchability of information
- Improves user search precision (accuracy of results) and recall (completeness of results)
- Underpins structured, metadata-driven metrics to measure what information items exist, what is missing and what does not exist
- Provides the structure to support auto-classification tools
- Provides an extensive framework for custom extensions and machine learning
- Is the result of more than 10 person years work and has been used by thousands of E&P professionals
- Is significantly more cost-effective than developing a first-draft, in-house taxonomy

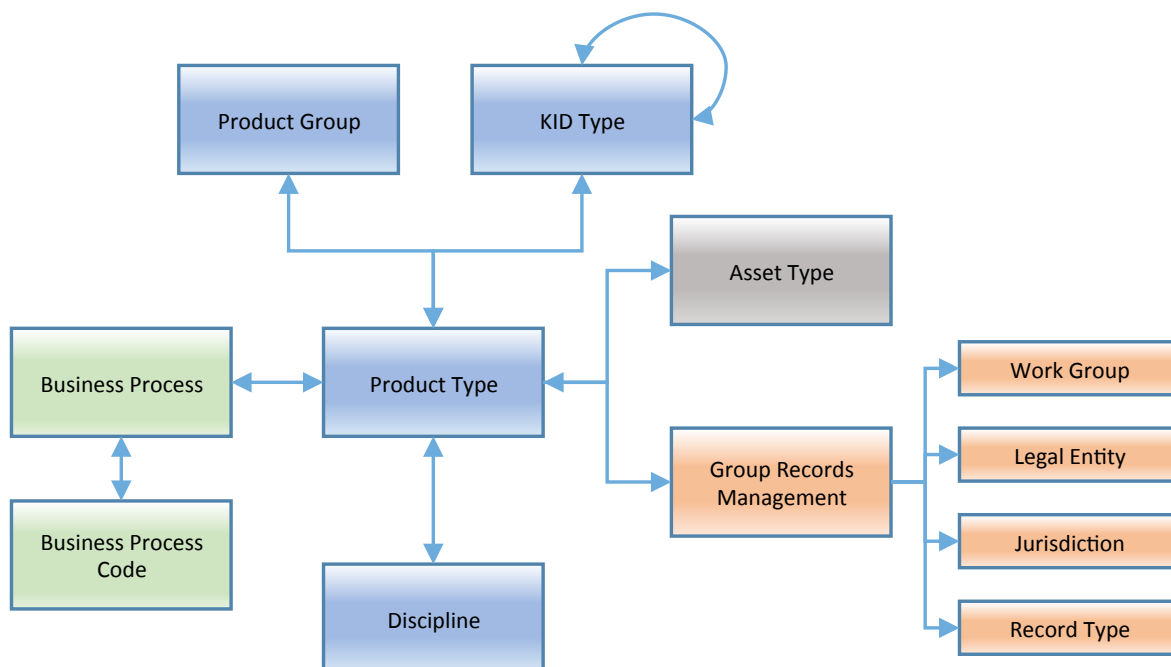


The Catalog user interface allow users to browse and select these assets and utilises the inter-relationships between lists to subset the values displayed; e.g. selecting a country from the country list will limit the fields and wells displayed. A typical relationship model is illustrated below:

## E&P classification - the contextual taxonomy

Flare's E&P classification methodology is based on the concept of 'Product Types', the common information items created by people in the industry. To date over 6,000 product type values have been defined, each one being attributed with a unique name and a number of aliases to facilitate searching, as well as defined relationships to other attributes in the taxonomies.

These relationships are illustrated below:



The Product Types relate other contextual terms such as discipline, business process, asset type and KID types. KID types define the knowledge, information or data type and can, more generically, be thought of as topics.

Each term is described with a unique name and a number of common industry aliases and foreign aliases, to facilitate searching, navigation and classification. Each term can also contain industry derived terms, examples, acronyms, company specific aliases, disambiguation rules and relationships to other terms within the taxonomies.

The contextual taxonomies have been in development by Flare for over ten years.

## Size and scope of the Taxonomies

Flare's Oil and Gas Taxonomies are the broadest, most comprehensive terms available in the industry with in excess of 400,000 relationships contained within the set. The Taxonomies cover technical and non-technical document types and topics ranging from geological time to business methods. The statistics below provide an outline of the preferred terms and non-preferred terms by major class type only.

Class Type	Preferred Terms	Non Preferred Terms
Product Type	5,300	6,500
KID Type (Topic)	12,000	14,000
Business Process	3,800	4,600
Discipline	350	300
Product Group	230	1,000
Asset Type	27	n/a
Acronyms	600	n/a
Country/Region	687	600
<b>Total</b>	<b>22,994</b>	<b>27,000</b>

## Continuous Learning

During the development of the Flare Oil and Gas Taxonomies, Flare is proud to have worked with a wide variety of oil companies, from small to large. The Taxonomies continue to evolve as Flare and our clients learn. We feedback all learnings into the Taxonomies, so that the client community can benefit.

## Key Features

- **Extensive coverage** - of upstream E&P business areas
- **Comprehensive** - with more than 6,000 E&P products, 15,000 keywords and over 400,000 relationships
- **Related hierarchical terms** - including synonyms, acronyms and examples as well as disambiguation logic
- **Client-specific terms** - accommodated as aliases or as proprietary extensions to the standard taxonomies

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## About Flare

Flare provides information management consulting, software solutions and related services to the E&P industry.

Formed in 1998 by people with a background in geoscience and petroleum engineering Flare brings extensive industry experience gained at management, operations and technical levels, both within oil companies and the E&P service sector.

The Flare team has developed consulting and services based on a practical, holistic approach to managing knowledge, information and data that focuses on real business needs. The same thinking is encapsulated within Flare's portfolio of software solutions. These include the Catalog for publishing and finding information, Tracker for organising deliverables and Cortex for classification and text analytics. These are all underpinned by Flare's comprehensive Taxonomies. We also

have a range of specialised modules, including Emergency Response, Exploration Opportunity Manager and Wellfile.

Since its formation Flare has worked on a broad range of projects with E&P organizations around the world and has gained a reputation for excellence and innovation. Engagements have ranged from information management strategy development, through data and information clean-up projects to software implementations and associated change management. Flare has worked with a wide range of organizations from small independents to large multinational oil companies as well as governments, services organizations and industry groups.



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