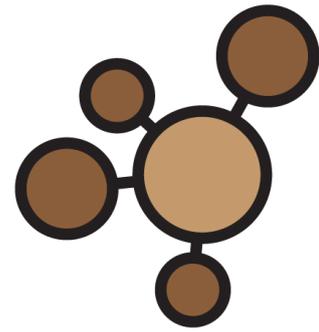# The Flare Oil and Gas Taxonomies

The Flare Oil and Gas Taxonomies provides the most robust, comprehensive knowledge map of the E&P business available. The Taxonomies comprise of thousands of valid values, relationships, synonyms and aliases to help E&P professionals tag, catalog, publish and ultimately find their E&P information assets.

In the past the only viable option to access the taxonomies was to access through Flare's award winning E&P Catalog™. However, Flare are now exploring licensing options for oil and service companies to have full access to the taxonomies for use within their applications and search and publish environments.

What is a Taxonomy

A Taxonomy is a set of hierarchical lists, which are used for classification. The Flare Oil and Gas Taxonomies are related to one another to create rich semantic relationships between its elements. The taxonomies do more than just control a vocabulary, and can be thought of as knowledge representation.
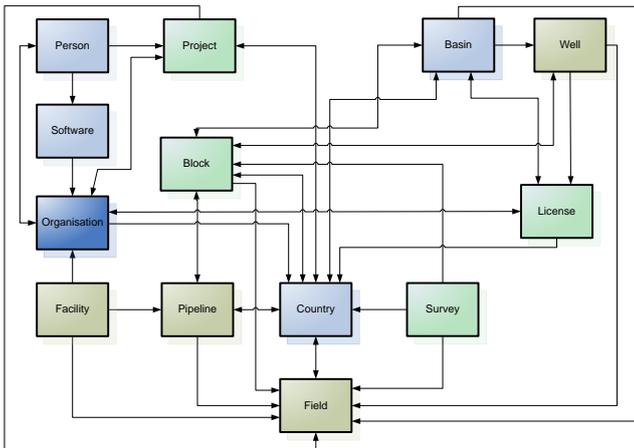
Asset classification – the asset taxonomies

Flare's asset relationship module is fully configurable based on client requirements. The system allows a client to model the assets of their business, and in the E&P environment this typically covers physical assets such as wells, fields, licenses, basins etc.

A typical relationship model is illustrated below:

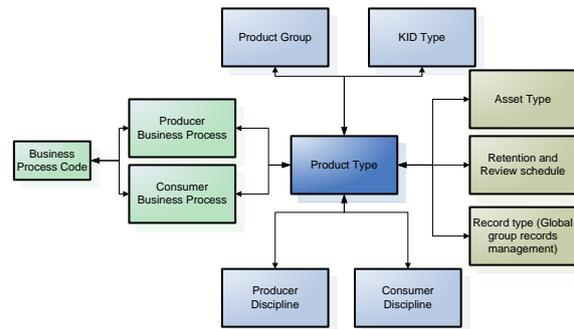The assets and their relationships can both be configured for each specific client install.

For each asset the company standard name is used and aliases can be added, including UWIs and short names. The user interface supports functionality to allow users to find these assets, and the lists are inter-related; e.g. selecting a country from the country list will limit the number of fields and wells available.

Each list can also be searched for the company standard and alias names.

E&P classification – the contextual taxonomies

The E&P classification methodology is based on the concept of 'Product Types': the common items created by people in the industry. To date over 10000 values have been defined, with each one being attributed with a unique name and a number of aliases to facilitate searching, and relationships to other attributes in the taxonomies.

These relationships are illustrated below

Each value can also contain industry aliases, examples, acronyms, company specific aliases, foreign aliases, disambiguation and of course it's relationship to other values.

Preferred term counts

Class type	Preferred Terms	Non preferred terms*
Product Type	4795	5700
KID Type	8970	10500
Business Process	3829	4600
Discipline	304	258
Product Group	176	799
Asset Type	27	n/a
Acronyms	600	n/a
Country	687	601
Total	**19388**	**22458**

Estimate based on recent extract

Supporting applications

The taxonomies are supported by a number of applications and web services to facilitate querying by other systems, and maintenance, visualisation and synchronisation. The applications suite can be used to ensure that all other applications create valid value lists from a central repository to ensure adherence to company naming standards, and to benefit from the relationships defined in the taxonomies data set.

About Flare

Flare Solutions Limited provides information management consulting, software solutions and related services to the international oil and gas exploration and production 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 within oil companies and the E&P service sector. The Flare team has developed a unique, holistic approach to managing knowledge, information and data that focuses on real business needs, not technology solutions.

Flare has built and deployed a portfolio of software applications for the E&P industry. These include the award winning *E&P Catalog™* for publishing and finding information, *EPCat-Tracker™* for tracking information, *TOPAS* for personnel competency tracking and *RAPOR* for production and operations management.

Since its formation Flare has worked on a broad range of projects with E&P companies around the world and has gained an enviable reputation for excellence and innovation. Engagements range from information management strategy development to information, workflow and process improvement projects for organizations ranging from small independents to large multinational oil companies as well as governments, services organizations and industry groups.

Flare Solutions Limited
View House, 9 Meadow View, Marlow Bottom
Buckinghamshire, England, SL7 3PA

Europe:
Tel: +44 1628 482 750
Fax: +44 8704 602 543
E-mail: enquiries@flare-solutions.com

North America:
Tel: +1 403 932 4597
Fax: +1 403 932 6156