**INdicio™ CRS Registry**

**INdicio™ CRS Registry** is an open standards-based registry of coordinate reference systems (CRS) and units of measure definitions. It is based on Galdos’ industry leading INdicio™ Web Registry Service.

The CRS Registry can support any CRS that can be defined using GML v3.2 including the European Petroleum Survey Group (EPSG) reference systems, various types of Engineering Reference Systems, and the CRS defined by ISO 19111.

The CRS Registry can be supplied with the current EPSG content or the user can obtain updates from the OGP (Oil and Gas Producers Association) who maintain this content. Additionally, users can incorporate their own proprietary CRS definitions in the registry.

**INdicio™ CRS Registry** provides a content viewer that supports a variety of search modes, including search by identifier, by location (spatial extent), and search by CRS component type (e.g., Coordinate System, Earth Model etc.). Content is displayed in a flexible and easy to read manner.

### Helping to Manage the World’s Natural Resources

**Case Study: Shell Oil, Exploration and Production & Oil and Gas Producers Consortium**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
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<tbody>
<tr>
<td>No way to manage critical coordinate reference systems data (store and retrieve in real-time)</td>
<td>An <strong>INdicio CRS Registry</strong> enables a central and global access point for coordinate reference systems. Users are able to acquire the most up to date CRSs from a single source. Currently deployed within Royal Dutch Shell and the International Association of Oil &amp; Gas Producers (OGP)</td>
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<td>Lack of data integration equals lack of data for important decisions – e.g. exploration planning</td>
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<td>High costs related to managing proprietary data formats</td>
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“Drill an exploration well in the wrong place and you could be looking at tens of millions USD in costs”

*Geospatial Solutions, 2006*
INdicio™ Web Registry Service

INdicio™ is a Web Registry Service that implements the OGC (Open Geospatial Consortium) Web Registry Service specification (also known as the CSW-ebRIM profile of Catalogue 2.0).

INdicio™ ships with the WRS Basic Extension package which provides a variety of objects useful in geographic information systems including:

1. **Services taxonomy** (source: ISO 19119 "Geographic information -- Services")
2. **Slots** (source: DCMI metadata terms)
3. **Country codes** (source: ISO 3166-1 "Codes for the representation of names of countries and their subdivisions -- Part 1: Country codes")
4. **Geographical regions** (source: UN Statistics Division)
5. **Feature codes** (source: DIGEST v2.1, Part 4)

Unlike conventional geographic catalogues, INdicio™ is highly configurable and can readily be deployed to manage a wide variety of objects including:

- Web Service descriptions
- XML (and GML) schemas
- Definitions of coordinate reference systems (CRS)
- Map Styles (e.g. OGC SLD documents)
- Geographic data sets (conventional data catalogue)
- Imagery descriptions (conventional image catalogue)
- Access control and subscription policies

**Key Features:**

- Open Standards-Based
- Easy installation and configuration
- Easy management and monitoring capabilities
- Secure & Flexible interface
- Multilingual application domains

**Totally Customizable!**

INdicio™ is inherently extensible and can be adapted to multiple application requirements by using eBRIM’s extension package model.

Galdos is constantly developing new extension packages like the CRS Extension Package. We also develop custom extension packages on request.

**Technical Summary:**

- Implementation of OGC Cat 2.0, csw-ebRIM
- OGC Filter Expressions (v1.1.0)
- W3C XPath 1.0 expressions (directly included in OGC Filter)
- Oracle 10g R1 or higher
- Java JDK 1.5
- Windows 2003, Red Hat Enterprise Linux 4.0
- Tomcat 5.5.20 Web Application Server