

Origin LIS & Data Observatory Detailed Module Descriptions

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ORIGIN

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Web Portal – Core Module

This is the minimum Origin deployment. It includes the main statistical data store for multi-dimensional small area data. The main portal can be accessed by internal users, partners or the general public and includes an extensive range of tools for locating, querying and visualising data as tables, charts or maps. Data can also be extracted for off-line analysis in a variety of formats and registered users can save their research findings for future use or utilise advanced tools for correlation and comparison analysis. The portal is administered through a range of straightforward functions and includes the management of users, organisations, meta data, groups, themes, datasets and usage reporting. Administration can be managed centrally or distributed throughout your partnership.



Detailed Breakdown of module features:

□ Data Store Features

- Branded and styled to meet any design requirements.
- Statistical data store. (aggregated statistics)
 - Web based import procedures for any dataset.
 - Aggregation of hierarchical based geographies. (SUM,AVG,COUNT)
 - Automatic standardisation of data. (e.g. rating per 1,000 population)
 - Automatic ranking of geographies.
 - Small number suppression.
- Supports multiple concurrent users.
- Full web based administration or direct database administration if required.
- Intranet, extranet or internet deployment options.

□ User Data Tools

- Thematic Data Browser - this allows users to browse indicators across all datasets. Datasets are grouped into themes and indicators are grouped into categories. This allows users to 'drill-down' and locate data intuitively.
- Locate Tool – this enables users to locate indicators based on geographic areas of interest. A regional map is used to view and select areas individually or by highlighting an area on the map. The system then produces a filtered list of indicators that contain data for the selected areas.
- Data Search – this allows users to search all datasets by keywords, meta data and tags. When integrated with the *Publisher* module this tool is also used to search for other information such as documents, resources and baskets.

□ User Visualisation Tools

- Tabular functions:
 - Sorting and filtering results.

- Tools to pivot data.
- Export data in various formats including Excel, CSV, XML & Word.
- Charts functions:
 - Different series types – area, time or indicator based
 - Single or multiple indicators on a chart.
 - Single or multiple geographies (including different types)
 - Types: Vertical, side-by-side, horizontal, donut, pies, radar, scatter, bubble
 - Series types: bar, line, cylinder, area line, marker, spline
 - Scales: normal, range, logarithmic, time, stacked, full stacked, logarithmic stacked
 - Customisable: 3D effect, colours, legend layout, size, titles, Y axis, sorting, axis marker
 - Ability to export the chart for use in Word and other documents.
 - Ability to annotate charts with comments.
- Map functions:
 - Generate interactive thematic maps with a single indicator.
 - Generate static thematic maps suitable for printing.
 - Generate comparison maps allowing different indicators to be compared at different geographic levels (e.g. LSOA with Wards).
 - Generate maps displaying two indicators and a scatter chart and calculating any correlation coefficient.
 - Display boundary labels
 - Combine tables and charts with maps.
 - Change number of classes and change colour palettes.
 - Enter a manual legend and titles.
 - Apply a background to the map
 - Interactive aspects – highlighting values/areas.
 - Include copyright & watermarks
 - Add reference layers (schools, council offices etc)
 - Export map in JPEG format for inclusion in Word or other documents.
 - Ability to save map settings for easy retrieval
- **Other User Tools**
 - Register
 - Login/Logout
 - Edit profile
 - Change password
 - Request a forgotten password
 - Save data queries for easy retrieval at a later date.
 - Save mapping settings for easy retrieval at a later date.
 - View custom dashboards based on access level.
- **Management Tools**
 - User management
 - Security & access levels management
 - Configurable password policies
 - Menu and functional management

- System configuration (system codes and parameter settings)
- Content management (for static site content)
- Google Analytics integration for usage reports
- User reports
- Dataset reports on what data has been uploaded
- Geography reports on what data is published against sets of geographies
- Time reports on what data has been published against different periods of time
- Managing meta data for data sources, themes, organisations, geographies etc
- Out-of-date data alerts
- Delegated dataset management
- Group management (themes and/or projects)
- News and announcements
- Location data management – simple tool for uploading schools, facilities etc.

Publisher

This module enables authorised users to publish research findings to different user groups or to the general public. *Publisher* includes a resource library for sharing any type of content including electronic documents, links to other systems or research findings and reports generated within the system itself. Administrators can set up and maintain groups wherein relevant resources and data can be assigned. These groups can be either thematic or project based and can be secured or unsecured and are accessible to end users through an intuitive query tool. The module also includes an innovative 'Data Baskets' facility that enables users to create and share dynamic data queries with other users or groups of users – particularly useful when collaborating on 'live' research.



Detailed breakdown of module features:

- Resource Library – an extensive resource library tool that allows authorised users to share and publish content within the system. Content can be in the form of: uploaded electronic documents of any type, links to other websites, reports authored in the system and Data Objects (see below) created within the system. Resources can be published to different thematic or project groups and can be secured or unsecured. A wide variety of meta data can be applied to published resources including:
 - Descriptions, authors, source.
 - Publication and expiry dates.
 - Security and accessibility options.
 - Tagging using the IPSV classifications or custom tags.
 - Creating related links to other resources or Data Baskets (see below).
 - Simple version control.
- Data Objects – users can publish any table, chart or map that they create within the system as a snap-shot in time. Data Objects can then be used within the Report Writer (see below)

or can be shared directly with a wider audience through the Resource Library described above.

- Report Writer – users can author HTML reports using layout templates and Data Objects (described above) and these reports can be shared through the Resource Library. Reports can also be made available through XML for inclusion in other web sites.
- Data Baskets – users can create collections of ‘live’ data queries that can span different themes or even datasets and can then share these with other users within the system. Baskets can be created for any collection of geographies and can contain a variety of viewing preferences. Any resource within the library can also be assigned to a basket; this is useful when publishing a report where it would be useful to provide users with direct access to any underlying ‘live’ data.
- Partner Portal (see below) Integration – if used in conjunction with the Partner Portal module partners can publish content through the Resource Library to their specific portal.

Profiler

This module enables authorised users to set up area based profiles such as wards, districts or postcode area. Profiles can be setup for any theme and can use any of the indicator data available in the system. Profiles can be configured to display summary information, comparison data, trends or thematic maps. Profiles can either automatically use the most recent data held within the system or be configured for a particular time frame. Administrators can restrict who should have access to view the profiles.



Detailed Breakdown of module features:

- Multiple geography collections can be defined for your different profiling requirements, for example; Wards only, LSOAs and Wards, etc.
- Profiles can be setup for different themes and can contain any range of indicators where appropriate data exists.
- Profiles can be secured so that they are only available to authorised users.
- End users can access profiles by first selecting their geography of interest (e.g. a Ward) and then viewing all profiles for that area or else by selecting a theme of interest (e.g. Education) and then viewing all geographies available.
- When an end user views a profile the information displayed can contain summary data, comparison information, trend chart or a thematic map.
- Profiles can be integrated with a postcode file allowing users to locate profiles based on their postcode.
- Partner Portal Integration – if used in conjunction with the Partner Portal module partners can publish profiles to their specific portal.

Stats On Maps

This module uses a pure HTML interface (no browser plug-in required) to display a regional map with an interactive overlay of thematic data such as deprivation, crime, health on the map. *Stats on Maps* is an excellent way for portraying statistical data to councillors and the general public. The module can also display summary, trend and comparison information for any area within the region. The *Stats on Maps* module provides administrators with complete control over which statistics within the data store are available for viewing on the maps.



Detailed Breakdown of module features:

- Optimised for general public access, controls for zooming and panning the map.
- Multiple geography type can be defined for your mapping requirements, for example; Wards only, Districts → Wards, Wards → LSOAs etc
- Can be setup for different themes and can contain any range of indicators where appropriate data exists.
- End users view a regional map containing all geographies shaded accordingly for a selected profile indicator. Users can highlight any region on the map (Ward etc) and view summary data, comparison information or trend chart.
- Profiles can be integrated with a postcode file allowing users to locate their neighbourhood easily on the map.
- Partner Portal Integration – if used in conjunction with the Partner Portal module partners can set up Stats On Maps for their portal.

NeSS

This module provides direct integration with the ONS Neighbourhood Statistics (NeSS) Data store where over 300 datasets and 4,000 variables are available. With this module Administrators can browse NeSS data and then harvest it automatically so that it is available directly within their own store for use by other users. The module checks for data updates every night and pulls down any changes. Because the data is loaded directly it can be treated just like any other dataset and used for further analysis and reporting.



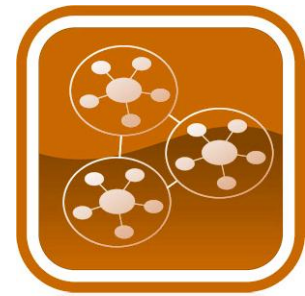
Detailed Breakdown of module features:

- Administrators can browse the entire NeSS Data Store.
- Administrators can create datasets within the Origin data store that automatically harvests data from NeSS.
- Administrators can create single datasets in Origin that contain data from multiple NeSS datasets.

- Once a dataset has been harvested it can be made available to other system users in the same way as any other Origin dataset, and all Origin tools such as query, visualise, report and profile tools are then available to end users; .
- A Windows Service is used to check for updates and download data automatically on a regular schedule.

Partner Portals

This module enables the creation of additional portals for any partner organisation or district. This allows you to run multiple systems from a single Origin instance, useful in regional partnerships for providing all organisations with their own sub-system. In essence, with this module partners can have their own Origin LIS and Observatory operating as an island off the main system. Each partner can manage their own datasets, resources or any other information specific to their geographic area or organisation. Users who access a partner portal will automatically see a filtered view of the data displaying only relevant information from the partner.



Detailed Breakdown of module features:

- Portal administrators can manage all datasets, resources, baskets and profiles available within their portal.
- Data can be tagged so that is available in both the main Web Portal and a Partner Portal.
- Where necessary data can be tagged so that it is available in multiple Partner Portals.
- Each Portal has its own custom home page that displays the latest content relevant to the portal.

Connector

This module provides a set of web services that enables direct integration of statistics into the Origin data store. Using *Connector* technical specialists can quickly and efficiently push data from other internal systems without recourse to manual tools. This module also includes *SQL View*, a tool that allows system administrators to transform any data query into an MS SQL Server View using a simple to facility (no DBA knowledge required). SQL Server ODBC/OLEDB connections can then be used to access these Views as 'live' links within other applications such as Excel, SPSS or desktop GIS.



Detailed Breakdown of module features:

- A set of SOAP API web services available with functions for listing datasets, checking for existing data and importing data using XML.

- Simple web tool for converting any query made within the Web Portal to an SQL Server View

Consultancy and 3rd Party Modules

Origin can also be extended to include other software such as online discussion forums and online survey tools and we have a range of options available depending on your needs. We can also integrate Origin with the *iShare* platform from Astun Technology; this can extend your solution to include data integration with internal systems, Web GIS functionality and other citizen centric functionality. In addition we can provide a range of consultancy activities including data management process consultancy, data migration service, tailored training, systems integration, and product customisation.

Please contact us for further details.