SCI Store Product Overview

About SCI Store

The SCI Store is a data repository which retains patient information at a health board level. SCI Store is capable of integrating a wide range of clinical information into a single consistent patient record, providing a clear clinical picture of patient activity.

Interfaces

The SCI Store accepts the following clinical report types: Biochemistry, Haematology, Pathology, Microbiology, Radiology, as well as various other Laboratory types.

Web Application

In addition to this, the SCI Store application also has full support for the storage of a full clinical documents related to the patient. Patient episode tracking is also possible using the ADT(Admission, Discharge, Transfer) system which, when combined with an appropriate Patient Administration System, provides details of any inpatient activity for the patient. Detailing tracking of inpatient care is available where the ADT interface is implemented, and allows searching of patient by their current ward and attending consultant.

Find Patient

The SCI Store Application has been deployed in each of the 15 NHS Health Board areas within Scotland, and is currently in use by over 27,000 users. The SCI Store is typically used as the area MPI (Master Patient Index), and will contain one EHR (Electronic Health Record) per patient for the Health Board area. This MPI can be used as a trusted source of correct patient demographics for localised systems within the Health Board, through the
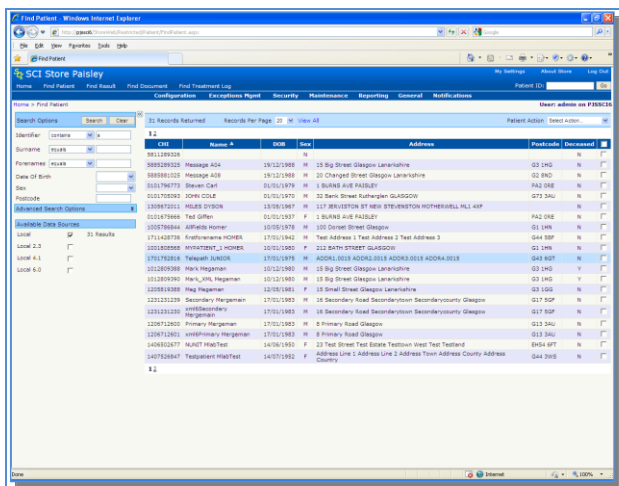
bespoke Web Services interface, allowing standardised access from remote applications. The Web Services can also be utilised by remote instances of SCI Store, allowing separate Health Board to share patient and result information in a consistent and secure fashion. This feature is know as "Store to Store", and allows a user to access patient and result information from external Health Boards in a logical, secure manner, using the standard SCI Store interface to ensure consistency of information.

Clinical Functions

SCI Store provides a number of advanced features for patient and result information.

The integrity of patient demographics is maintained through the use of a highly sophisticated hierarchical Patient Matching Rule-based system, allowing patient data from incoming systems to be processed accordingly. Data quality is also augmented by closely linking the SCI Store to the central CHI system. The SCI Store is first "seeded" with a full download of a Health Board area's patient set from the CHI service, and is maintained with a supplementary daily download of changes. Combined with inputs from the area PAS systems, the patient's EHR is kept both consistent and current. The SCI Store also has the ability to directly query the CHI databases, in order to obtain live information about out of area patients.

The SCI Store has full support for a range of clinical document types, including plain text, Microsoft Word format, Adobe Acrobat format and XML. The document module allows full coding of all consultants included in the clinical pathway, and conforms to the Scottish Executive guidelines on the patient's consent rights.

Advanced Features

The SCI Store has many advanced viewing features for results reporting. A Cumulative Reporting screen for results is available, and can be configured by the user to provide a multitude of views on the data. Cumulative Reporting gives the user a logical view over all results for a patient, allowing trending and comparison to be performed easily. The

SCI Store Product Overview

Cumulative Reporting can also be used to unify lab results obtained from disparate systems, providing correct calibration of reference ranges. Filters ensure the user can choose to see only the data relevant to the current episode of care.

Remote data sources

The Remote Data Sources (Formerly Store to Store) module allows seamless searching of SCI Stores in external Health Board areas. This feature allows a user to access patients and results on a Remote SCI Store using the standard SCI Store search features, and displays the information in the same format as data from the local SCI Store. This ensures consistency of information and requires no additional user training. The Store to Store module allows full use of the inbuilt SCI Store security features, which can control access to both specific data fields, as well as whole records based on the information rules defined. Full auditing is maintained on both the Local Store and the Remote Store used for searching.

A recent development has been the integration of Label Printing functionality, allowing SCI Store (in conjunction with Label Trace software) to automatically produce bar-coded labels for patients, on Zebra label printers. The label formats are fully configurable on-site, and provide a seamless label printing solution.

SCI Store Web Services

The Web Services interface for external systems has also been expanded to include a Notification Services system, which allows external systems to track patients in a targeted manner, increasing the data quality of these applications. Notification Services are full configurable by clients, and allow interest to be registered against any search field, such as patient specific information (CHI number), widening to secondary patient data such as all patients for a specific GP Practice or Hospital Ward

Future Developments

SCI Store is under continual development, with a range of new features planned for the future. There are currently plans to expand the Results interface to include a wider range of result types for reporting. These types include ECG, Endoscopy and Colposcopy with many more specialised reporting disciplines under consideration.