ICON®
Software Understanding Studio

ICON is a suite of integrated tools that will allow you to gather and analyze information about your legacy applications.

ICON provides powerful automatic processes to do complex searches of source-code, to estimate software complexity.

ICON stores the information in an easy to access SQLRepository using products such as Oracle, MySQL, MS Access. A complete utility kit allows almost any type of inquiry.

The ICON Suite

The ICON suite is composed of several modules:

Building module
- Inventory/Auditing process
- Scanner process

Browsing module
- Repository browser
- Enhanced source editor
- Object flow
- Visual reports builder

Settings module
- General tools settings

Environment Support

ICON supports the most popular mainframe, Unix and Windows environments. All application elements can be loaded into the Repository and then analyzed. The types of objects supported are Programs, Copybooks/Includes, Maps, JCL, Proc, Control Cards, DDL, CICS and IMS definitions and more.

ICON Analyzer Module

The ICON Analyser Module is a server-side component which is composed of two parts:
- Inventory/Auditing process
- Scanner process

The inventory process analyzes the native application's libraries and automatically recognizes the objects typology. Once the information has been stored in the Repository then the elements of the application can be organized in several libraries and application sets as shown in *Picture 1*.

The Scanner process analyzes the target application source code. Each object is carefully analyzed and each information is stored in the relationship tables of the Repository. This step extracts the following information from the source-code onto the storage:
- Field definitions
- Instructions
- Links among all objects
- Missing and duplicated objects
- Syntax errors
- Software complexity

The Building Module can be set to operate automatically ensuring that the Repository is continuously updated.

ICON Key Features Highlights

- Client/Server technology: Java technology edition with java web services features
- Standard SQL REPOSITORY: Oracle, Sql Server, MS Access
- Support for: Program, Copy/Include, Map, Jcl, Proc, Control Card, DDL etc.
- Language support for: 370 Assembler, all COBOL versions, PL/I, Easytrieve, MANTIS, JCL, SQL
- Tp Monitor support: CICS, IMS/DC
- Data Storage support: ISAM, VSAM, SQL (DB2, ORACLE etc.), DL/I, IMS/DB

ICON Browsing Module

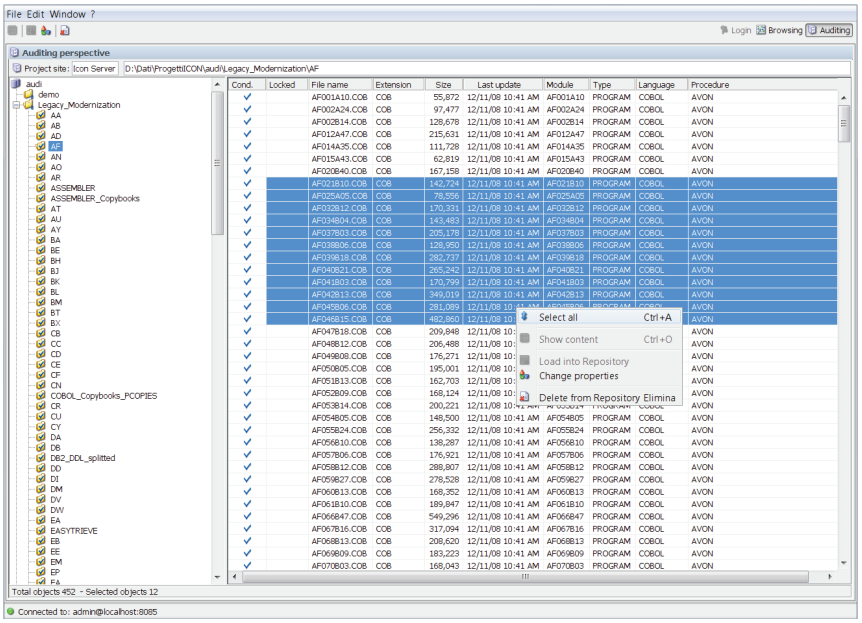
The ICON Browsing Module is part of the client component which takes advantage of an integrated docking system. The browsing area can contains several different views.

The most important are:
- Repository browser *(Pictures 2-3)*
- Enhanced source editor *(Pictures 4-5)*
- Object flow *(Pictures 6-7)*
- Visual reports builder (Pictures 8-9)

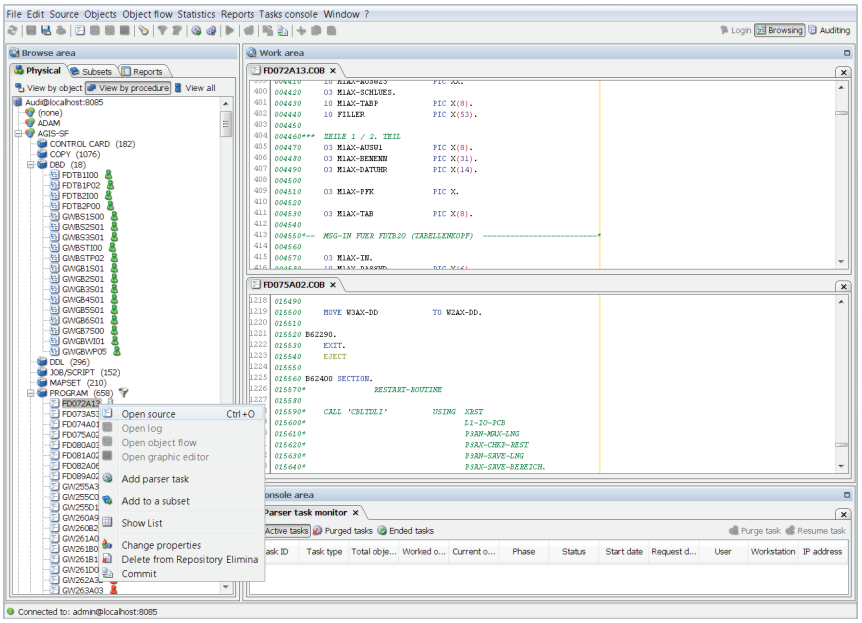
The Repository browser provides easy access for user inquiry of the Repository.

Every view of the browsing area can be printed and exported in several file formats such as; a PDF document, an Excel spreadsheet or even a JPG image file.

Picture 1 - Inventory/ Auditing view



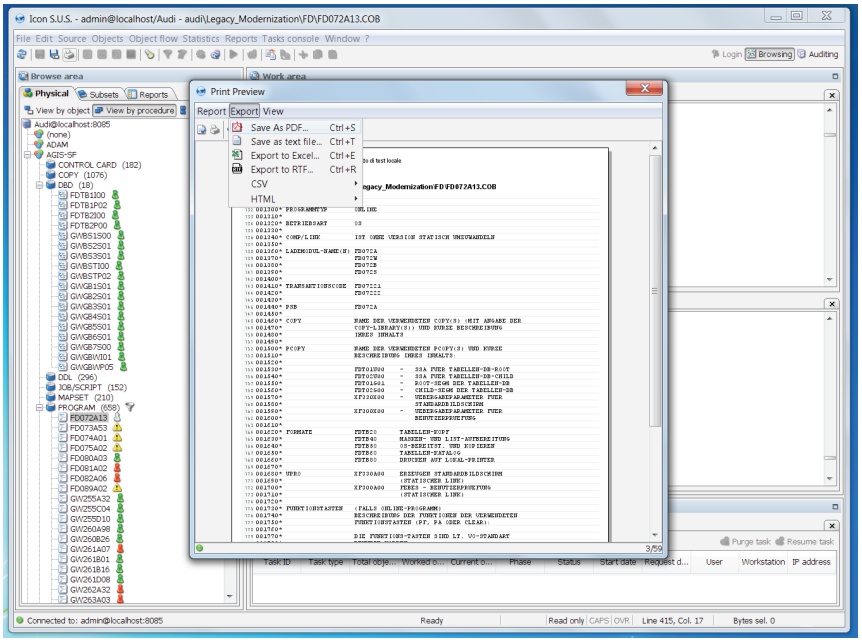
Picture 2 - Repository browsing area



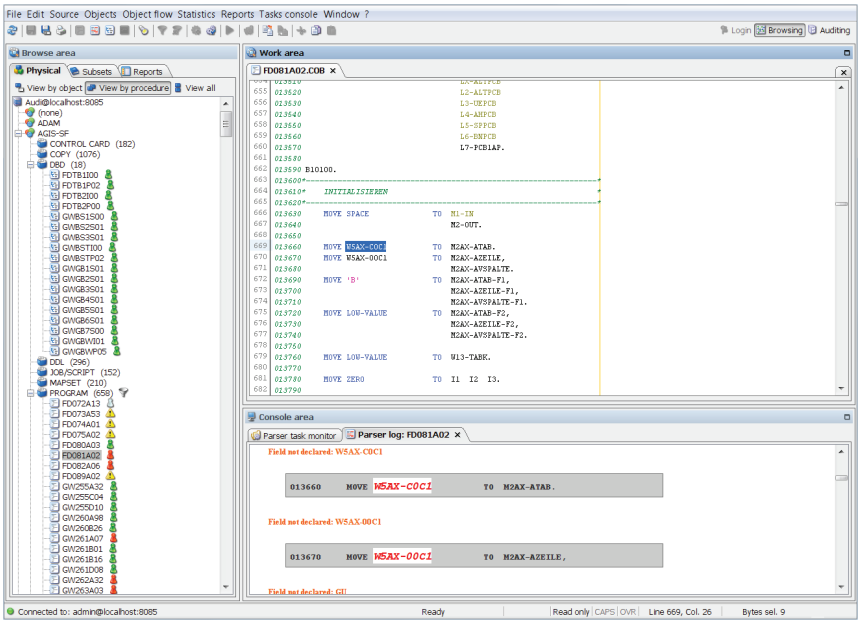
The source editor provides an advanced GUI editor and a broad range of developer - friendly features such as:

- Highlight words for all supported languages
- Intermediate jumping to related object
- View of expanded source
- Log view with hyperlinks to jump to the error lines

Picture 3 - Printer and exporter module



Picture 4 - Enhanced source editor and the log view

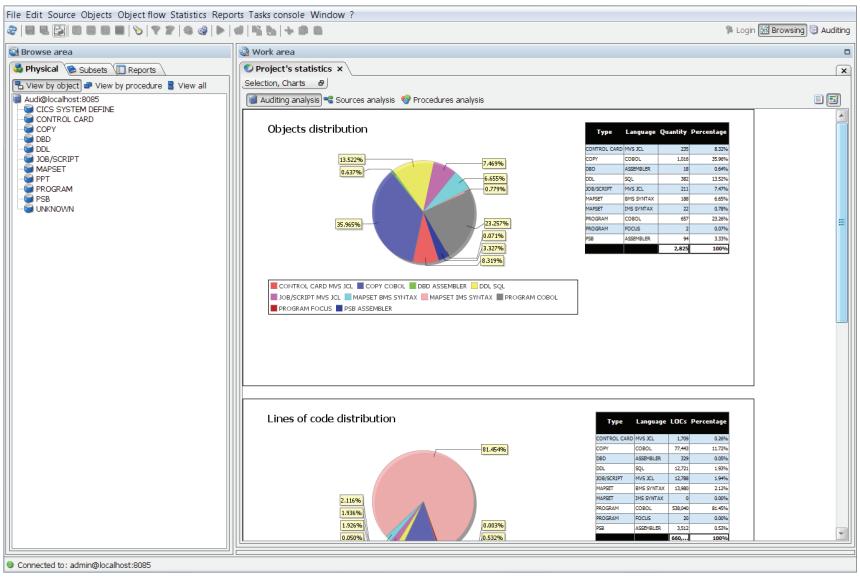


The object flow allows the user to explore in a graphical mode all type of relationships among the objects:

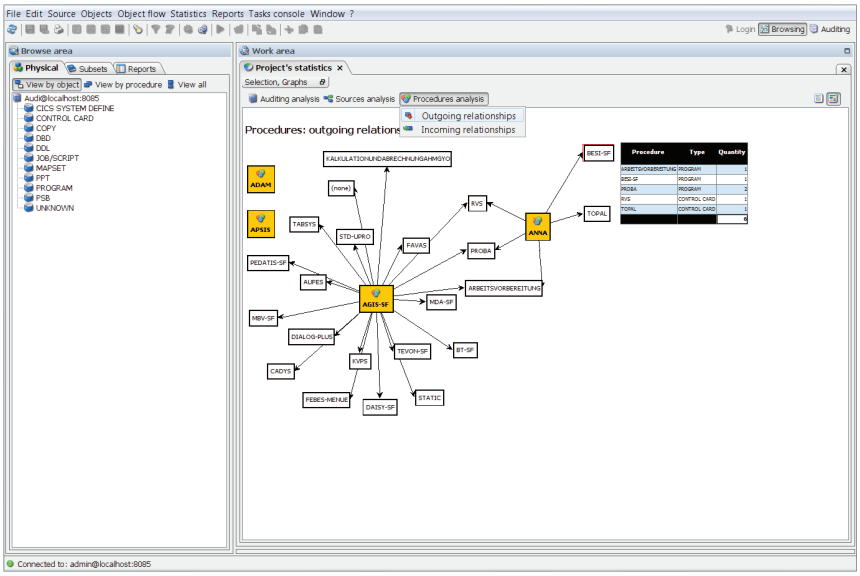
- Physical relationships
- Logical relationships
- Relationships between objects and data
- Logical objects structure flow

The interface is structured as an internet browser and by clicking on the correlated objects the navigation will continue through the elements. A navigation panel shows all the statements and fields of the objects that are contained in the repository.

Picture 5 - Sample report showing the objects' distribution throughout the various application

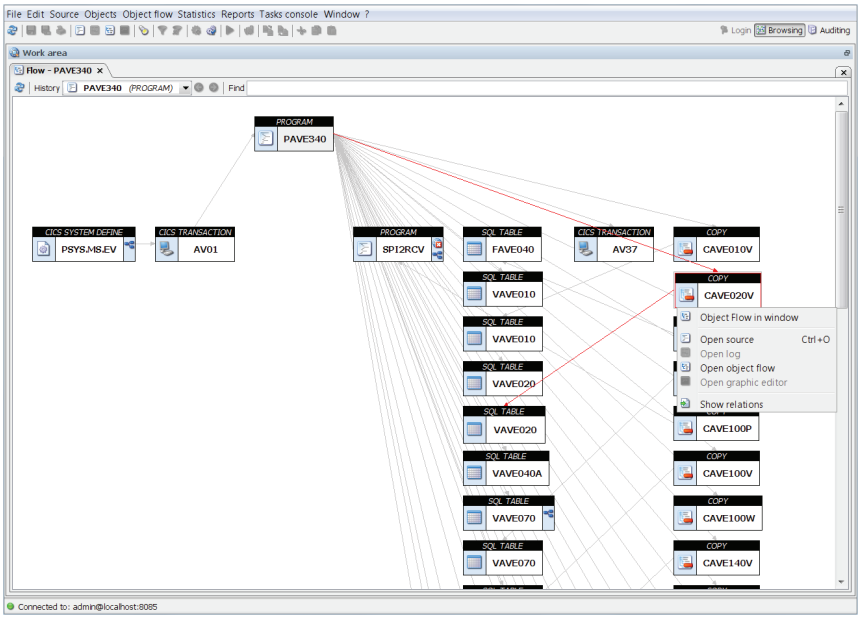


Picture 6 - Sample report showing the relationships between a section of procedures and programs. Indirect relationships can also be detected easily

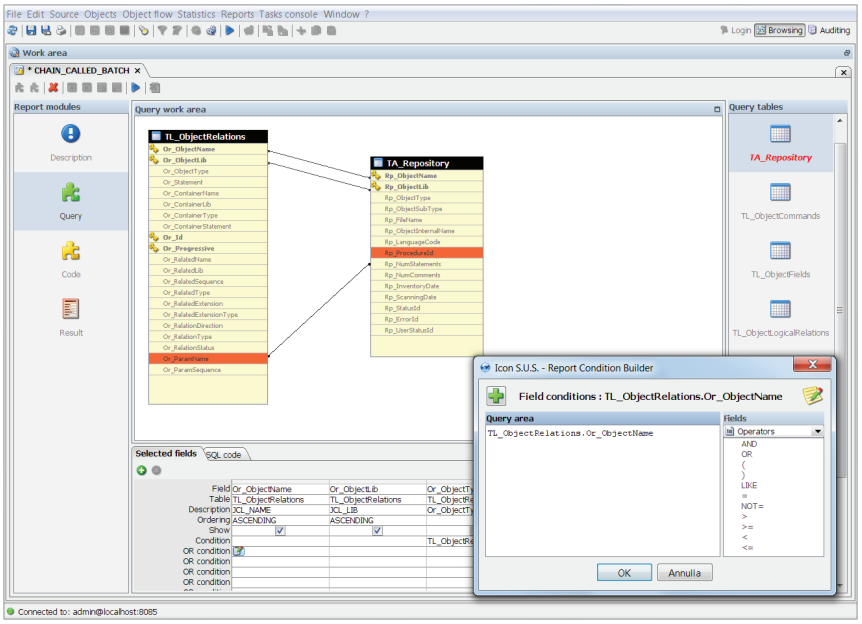


ICON provides a large set of the most commonly needed reports such as; missing/wrong objects, software complexity, data propagation and much more. Using Visual Report Builder the user can design custom reports to fit specific needs. New reports can be built by combining query modules and code modules. A query module is built in graphical mode by linking the tables of the Repository, adding conditions and order rules. A code module allows the user to extend the report by inserting complex processing. Every new report can be created by inheriting and extending the characteristics of an existing one.

Picture 7 - Object Flow showing logical structure of a program



Picture 8 - Visual report builder, drawing a query module



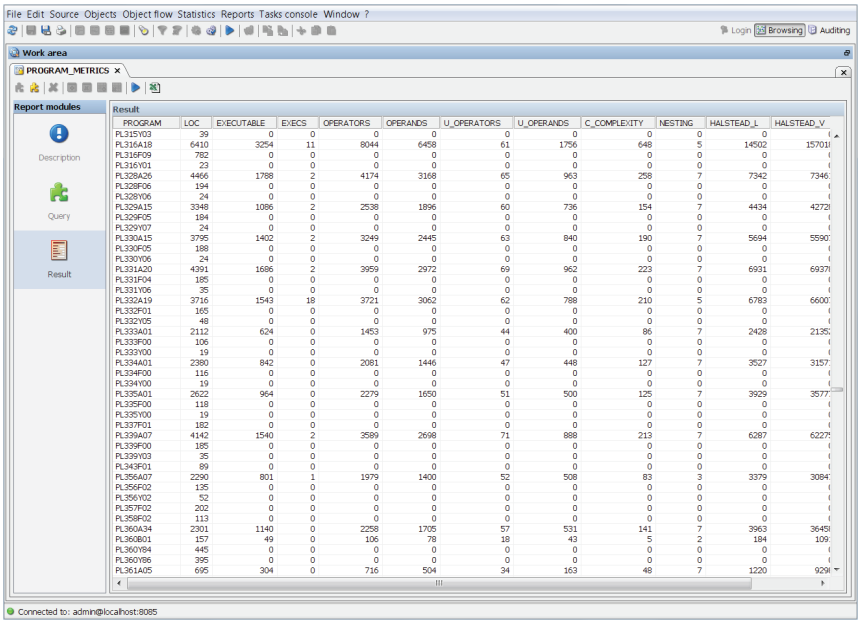
Overview of HTWC

HTWC is one of the top leading European rehosting, software conversion and application management solutions company. HTWC focuses on large organizations and is a valid aid in all those problem solving processes related to enterprise systems.

In particular, HTWC deals with all matters related to the integration and modernization of legacy environments. HTWC has specialized in Mainframe rehosting and software management solutions since 1987.

Currently, HTWC labs develop products for rehosting analysis, migration, conversion and reengineering of legacy software. The integration of these products guarantees a reliable, flexible and cost effective solution for our customers.

Picture 9 - Visual report builder, a report result



Further Information

For further information on the XFRAME® products, please visit our website at www.htwc.com or for specific questions, please contact us directly at info@htwc.com.

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