MANAGEMENT OVERVIEW
A GUIDE TO THE BENEFITS OF USING BUSINESS LOGIC EXTRACTION

Business Logic Extraction with X-Analysis
The Business Logic Extraction tool set extends to the X-Analysis and the Data Model Extraction tool set. The Business Logic Extraction tool set is responsible for automatic extraction of the explicit business rules and UI-meta-data from a RPG, COBOL or CA:2E application. Once extracted the business rules can be analyzed, documented and export into DDL, XML meta-data repositories and tools such as MyEclipseBlue, Rational, Erwin and Together.

**Benefits**

- Automatic extraction of Business Rules
- Business Rules Database
- Analysis and cross referencing of business rules logic in a legacy application
- Document business rules logic for a legacy application
- Individual Business Rule Annotations
- Business Rules Where Used & Summaries
- Business Rules export to MS Word/PDF and Spreadsheet
- UML Action / Class / Use Case diagrams

And many more …
The Business Rules of an application are what makes the application function uniquely in the company that uses that application.

The Business Logic tool set expose the Business Rules derived automatically from individual programs or parts of the entire system. The business logic can then be analyzed and documented.

The program source is grouped into discreet blocks of logic so that each block represents a particular execution of a business rule. This block of code is then given a structured English narration that describes the execution of the logic. Literals and constants are used where possible in the narration giving very accurate descriptions of the logic. Each rule has a unique identifier that makes system wide analysis and documentation of business rules possible in the X-Analysis.

**Business Logic for Entire Application**

Business rules summary view assists in viewing the rules at a glance.

![Illustration 1: Business Rules Summary](image)
### Business Logic for individual Programs

Embedded business rules display original code with indexed business rule narratives embedded at appropriate places.

#### Illustration 2: Embedded Rules with summary

### Analysis of Business Logic

The Business Logic once generated may be analyzed and cross-referenced using the Variable Where Used, Object Where Used and Member X-reference features of the X-Analysis.
The generated business logic / business rule summary can also be documented using the Annotate feature. Alternatively, it can be directly exported to MS Word/PDF or Spreadsheet.

**UML Diagramming**

The objective of UML diagrams in this context is to help sketch application designs and to make such sketches portable and reusable in multiple development environments. The three diagrams automatically generated by the X-Analysis are:

**Activity Diagram** - Activity diagrams illustrate the dynamic nature of a system by modeling the flow of control from activity to activity. An activity represents an operation on some class in the system that results in a change in the state of the system. Typically, activity diagrams are used to model workflow or business processes and internal operation. X-Analysis produces these automatically either from a single
program with multiple screens, or a group of programs. Each activity in the diagram represents a usable screen format in the RPG program. A user can also view the extracted Business Rules, relevant to that particular activity/format directly from within the diagram.

Use Case Diagram - Use Case Diagrams model the functionality of system using actors and use cases. Use cases are services or functions provided by the system to its users. Auto-generated from X-Analysis, this can be used as an alternative view to the Activity Diagram, and also has drill-down capabilities for viewing extracted Business Rules.
**Class Diagram** - Class diagrams are the backbone of all object-oriented methods, including UML. They describe the static structure of a system. Classes represent an abstraction of entities with common characteristics. Associations represent the relationships between classes. An extracted class in a class diagram corresponds to the individual screen formats and all of the specific attributes of that particular format. X-Analysis deduces the links between these classes using a combination of the derived data model, and call or action information extracted from each program.

Producing any of these diagrams from within the X-Analysis is as simple as right-clicking on an object and selecting the appropriate option from the pop-up menu.
Experience the fully loaded X-Analysis with 30 days trial copy of the software. For any information regarding the X-Analysis please visit our web site:

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Highlights

● Includes all features from X-Analysis Professional
● Includes all features from Data Model Extraction
● Identifies and documents business rule logic from legacy RPG
● Analysis and cross referencing of business rule logic in legacy RPG
● Individual Business Rule Annotation
● Business Rule Where Used & Summaries
● Business Rule Database
● Business Rule exports to MS Word and Excel
● UML Action / Class / Use Case diagrams