

X-ANALYSIS LITE PROVIDES

- o Variable Tracing - cross-referencing drilling down through multiple layers or variables and programs/files/screens (RPGII/400/LE/FREE, COBOL36/400/LE , CL, SQL)
- o Interactive source code browser
- o Interactive structure chart diagrams
- o Interactive data flow diagrams
- o Object where used
- o Procedures where used
- o Plug-in to Eclipse or WDS/WDi/RDp

X- ANALYSIS PROFESSIONAL (X-DOCUMENTER) *ADDS:*

- o Subdivide system into application areas and embed into other application areas
- o Application Area Diagrams
- o Restrict diagrams or show the objects that belong to an application area only.
- o MS Word project/static documentation wizard
- o Visio exports for graphical diagrams
- o Subroutine layering diagrams (program structure charts)
- o Link to SEU or CODE/400 and LPEX editors
- o Indented source code views
- o Program understanding at an application level, rather than a complete system level.
- o All other modules have use of application level control as opposed to entire system level functionality
- o Object Annotation repository or Word Doc based
- o MS Word / Excel/PDF exports of all Lists and graphical diagrams.

X-ANALYSIS MODELLING TOOLSET (X-REV) *ADDS:*

- o Automated generation of relational data model from RPG/COBOL/SYNON
- o Entity relationship diagrams
- o Data encyclopedia
- o Builds Interactive, ready-to-use, drill-down application over legacy system
- o Instant & Automated Structured, drill-down browsing of test/live data during
- o Browsing and analysis of data dictionary

X-ANALYSIS APPLICATION DISCOVERY (X-RULES) *ADDS:*

- o Identifies and documents business rule logic from legacy RPG
- o Analysis and cross referencing of business rule logic in legacy RPG
- o Individual Business Rule Annotation
- o Business Rule Where Used & Summaries
- o Business Rule Database
- o Business Rule Exports to MS Word and EXCEL
- o Export of DDL from relational data model.
- o Screen Flow Diagrams
- o RPG & COBOL data flow charts
- o RPG & COBOL source viewed as Pseudo code (Structured English with field texts
- o Source leveling (summarization of source members) by source line type
- o Creates Business Rule XML Model from recovered business rule logic
- o Screen design and report layouts at a glance

X-ANALYSIS ENTERPRISE DISCOVERY (X-AUDIT) *ADDS:*

- o Export of UML Class Diagrams from relational data model

- o Generation of UML Activity Diagrams
- o Generation of UML Use Case Diagrams
- o Screen Metrics
- o Database Metrics
- o Problem Analysis for design oddities, such as: Database file has constraints defined, Duplicate Logical files, Database file has FIFO/LIFO keywords in source, Source has changed after file was created, Joined logical files, Database file is journalled, Database files with multiple record formats, Database files with multiple members, No database file for an existing source member, No source for existing Database file, Database files with no members, No program object for an existing program source, No source member for program object, Source member changed after program object created, References to Un-included Files Display, Database file has Select/Omit rules defined, Database file has triggers defined, Un-migrated Logic, Unused Logical files
- o Summary Metrics – low, medium and high complexity classification of programs based upon each programs number of: Source Lines, Files, Printer files, Called Programs, Calling Programs, Screens, Sub-files, Copybooks
- o Metrics Report Writer– Complete customizable report writer for building complexity and analysis reports using the X-Analysis metrics repository. Trends, static analysis and source change reports included.
- o Audit Report – MS Word or PDF wizard generates structured reports of metrics and problem analysis results
- o Link multiple repositories for combined analysis throughout all functions
- o Builds a difference analysis between two versions of a system comparing
 - o Compare business rules
 - o Compare database designs
 - o Compare database relations
 - o Compare Functions
- o Builds a PTF impact analysis by comparing a PTF library repository with production repository

X-MODERNIZE

- o Complete automation of DDS to SQL Database Conversion
- o Copies production data into new database
- o Creates stateless CRUD Service Programs in RPGLE-Free
- o Creation of Object Relational Map in Hibernate & Java from derived relational data model

X-RESIZE PROVIDES

- o Automated field expansion conversions
- o Decimal position conversions
- o Instant & Detailed impact analysis for all instances: Fields, variables, programs, displays, reports, including aliases.
- o Integrated project control documentation with X-Analysis
- o Integrated change control with X-Control
- o Totally automated source conversion for all object/source types
- o Automated Bulk recompile
- o Automated data conversions
- o Exception reports for overlays and other problems
- o Merge converted source and objects back into primary libraries
- o Optional UNICODE conversion features (additional cost)

X-DATATEST

- o X-Subset – Creates complete test data subsets from live data based upon existing application data model.
- o X-Verify – Verifies and reports on referential integrity of entire live data based upon existing application data model.
- o X-Warp – ages dates forwards and backwards, days, months or years
- o X-Cloak – scrambles sensitive data while retaining integrity of special formats such as telephone numbers, names Zip/Post codes etc.
- o Set up a test environments
- o Define and populate checkpoints

- o Repeatedly execute the tests
- o Compare the resulting data in files/tables/reports
- o Review the differences in a user-friendly manner
- o Screen testing script automation

XA-OPEN

- o Cross references & documents Java, C#, PHP, Lotus Notes, VB/VB.Net & PowerBuilder
- o Builds standalone DB2 Express based X-Analysis repository
- o Share with IBM i repository
- o Multi-user shared repository across LAN
- o Works with Subversion

X-MIGRATE

- o Creates Business Rule XML Model from recovered business rule logic
- o Creates MVC Design Model from recovered legacy designs (screens, I/O, program actions/options, business logic)
- o MVC code generation from recovered designs as RPGLE-Free, JSF/Java, or Silverlight
- o Automated conversion of batch logic into Java or RPGLE-Free
- o Fully automated and integrated documentation with X-Analysis.
- o Can be used over user defined application areas or individual programs
- o Reuses existing stored procedures & assists in creating new SP's
- o Creates Hibernate configuration files from recovered relational model
- o Web Service Generation
- o Compare Original and Recovered code
- o Export business rules, data model & UI Meta Data as XML