Visible Analyst - Product Overview

- Powerful modeling capabilities
  – UML modeling
  – Process/business modeling
  – Data modeling
  – 3GL and 4GL designs
  – Structured design
- Reverse/forward engineering of database applications
- XML and SQL schema generation
- Generation of shell code
- Data warehouse design
- Import/export to other tools
- Concurrent user access
- Scaleable
- Priced competitively

Data Modeling to Enterprise Application Design

Whether you are designing e-business applications, developing a data warehouse, or integrating your legacy systems with new enterprise applications, Visible Analyst has all the power you need.

Visible Analyst enables true enterprise application engineering by storing and documenting data, processes, business requirements, and objects that can be shared by application developers throughout an organization. The result: you can more easily design and control enterprise software for quality, consistency, and reusability in business applications through the managed sharing of meta-data.

Common User Interface. Unlike many competitive products, Visible Analyst provides a common, integrated platform and user interface for all software design functions – structured, entity relationship, and object-oriented. Users need to learn the tool only once to take advantage of all capabilities.

Tailored to Your Organization's Needs. Does your company need a multi-user, networked application development system, or a full function enterprise architecture solution? Whether you're a Project Manager, Systems Analyst, Database Administrator, Program Developer, Web Developer, or other IS professional, Visible Analyst has a version to meet your requirements including: Enterprise Framework Edition, Corporate Edition, and Standard Edition.

Visible Analyst
Tailored to your organization's needs

Enterprise Framework
Edition - Zachman Support

Corporate Edition
complete modeling functionality

Standard Edition
for analysis and design

Free Webinars
Schedule yours today

Visible
SYSTEMS CORPORATION

Our Competitive Edge...

Meta-data Repository with Concurrent User Access

Visible Analyst's extensible repository stores meta-data of data, processes, and objects that can be shared throughout an organization, making it much more powerful than file-based tools. The repository functions interactively with models to automatically create an organized database of information for each project as it is developed.

Authorized users can access the repository at any time to manually add, modify, or delete objects or review entries and relationships. During work sessions, the repository is automatically updated. The repository supports concurrent user access, simultaneous update, and file/record locking.

Benefits of an integrated repository include:

Superior Enterprise Development. The repository supports enterprise modeling by linking projects in a parent-child relationship. Because individual software development projects are subsets of the global meta-data repository, large development groups can farm out pieces of models and maintain control. The result is better data integrity, security, and team collaboration.

Automatic Balancing. Visible Analyst balances between multiple model types, including data versus process and data versus class diagrams. With other modeling tools, you would have to export, compare, then import and change the data.

Object Integration. Each object defined in the Visible Analyst repository is maintained as a separate entry, available for reuse throughout the project. Define a data element once, and its use and definition is consistent whenever used, supporting the integration of diagram models with a search and reporting capability.

Denormalization Facilities

Visible Analyst automatically denormalizes relationships when generating database schema from data models that are subsets of logical business models.

Problem:	Visible Analyst Solution:
"We have inconsistent data and applications among departments..."	• Coordinate team enterprise development • Ensure enterprise consistency • Create powerful e-business and Web applications
"High staff turnover causes trouble with database and application maintenance and expansion."	• Capture your company's accumulated business knowledge • Create lasting documentation • Develop maintainable software quickly and cost-effectively
"I have a huge backlog of applications…"	• Model your business needs • Communicate more effectively with users • Develop maintainable software quickly and cost-effectively
"It's a hassle integrating databases and applications after a merger…"	• Reverse engineer systems smarter • Overhaul your legacy systems

This not only saves you significant time and resources in building data models and running database queries, it also enhances the performance of your physical database designs.

Exclusive IntelliViews™ Database View Support

Visible Analyst's sophisticated IntelliViews technology allows you to define generic database views that are automatically translated into popular database-specific syntax. Intelliviews also guides you in de-fining filter criteria and adapts the output to the SQL dialect of the target database. With IntelliViews:

■ Changes to data elements used in filtering conditions, calculation formulas, and expressions are updated universally

■ Code for joins based on foreign key relationships defined in the model is generated automatically.

■ Secondary Views can be dynamically created to implement joins for databases that do not support outer joins.

■ SQL generator seamlessly bridges differences between the logical data model and its (denormalized) physical implementation.

■ Creation of new views based on reverse-engineered views from an existing database requires no additional work.

XML Support for E-business Applications

Visible Analyst can help your company integrate its existing information systems for e-business application development, corporate portal development, or business reengineering projects. Visible Analyst can generate from models an XML Document Content Description (DCD) file, while any data defined for objects in the model are generated as structured XML files. The XML DCD contains meta-data descriptions for all tables/entities on a given model. These files can be imported into eXcelon™ and other XML-based server products.

Interfaces to Other Development Tools

Visible Analyst works well with other development tools. Models can be imported to and exported from ERwin. Code can be generated directly from the meta-data model with PowerBuilder and other development tools supporting Visual Basic, COBOL, C, C++, and Java.

Data Modeling to Enterprise Application Design –
One Integrated Toolset for UML, XML, and Structured Notations

High-performance Data Modeling and Database Design

Visible Analyst incorporates features that improve the performance of your physical database designs:

- User-specified physical database characteristics
- Built-in denormalization of data models
- Automatic synchronization of cascaded foreign keys
- Dynamic correction of Entity Relationship Diagram (ERD) syntax

Visible Analyst supports IDEF1X, Bachman, and Information Engineering (IE) data modeling notations, as well as provides conceptual, logical, and physical data models. It automatically generates Entity Relationship Diagrams and data models related to a particular process. Display options include entity, entity/key, entity/attribute, and entity/attribute-physical.

Database Schema Generation and Round-trip Engineering

Visible Analyst enables schema generation and reverse engineering of popular desktop and client/server databases, including Oracle, SQL Server, DB2, and Informix. You can connect directly to the target database via drivers that conform to Microsoft's Open Database Connectivity (ODBC) or generate SQL DDL scripts or AS/400 DDS. Quality client/sever applications can be developed with support for domains (user defined data types), stored procedures, triggers, (with referential integrity trigger generation), primary keys, and foreign key referential integrity constraints on applicable databases. Visible Analyst can recognize and import "intelligent" database views, and, without modification, generates views for target databases.

Integrated Object and Relational Database Modeling

Visible Analyst helps organizations achieve true enterprise application development by enabling them to integrate both their structured and object-oriented development efforts. It provides class definitions, including attributes, methods (with parameter lists), type of visibility, and relationships. It verifies aggregation and inheritance relationships and pure virtual methods in abstract classes. Visible Analyst supports UML (Unified Modeling Language) and Rumbaugh OMT notations including class, use case, sequence, collaboration, activity, and state transition models. Any relational Entity can be translated into an OO Class model (and vice versa), or either can be left as pure relational or pure object.

Powerful Process/ Business Modeling

Visible Analyst makes it easy for users to perform "top-down" and "bottom up" analysis and design. Its business and functional modeling diagrams are excellent tools for communicating with even non-technical users in your organization. Visible Analyst interactively checks leveling, syntax, and completeness throughout the hierarchy and balances data flows and processes. It automatically populates the repository and supports the splitting of data flows from repository definitions.

Visible Analyst supports Yourdon/ DeMarco, Gane & Sarson, SSADM, and Métrica methodologies and provides Data Flow Diagrams (DFDs), Functional Decomposition Diagrams (FDDs), and Entity Life History (EHL) Diagrams.

Structured Design

Visible Analyst supports structured design modeling for Page-Jones and Yourdon/Constantine methods. This model integrates automatically with data flow models and includes syntax and completeness checking. It supports:

- Modules, Macros, and Library Modules
- Control of couples, data couples
- Multiple invocation techniques
- Information clusters, interface tables, and intelligent page connectors

Learn more about Visible Analyst...

For more informaton about Visible Analyst, please contact our sales office at 800-6VISIBLE or by email at: sales@visible.com. Visit our Web site at: www.visible.com for information and free product downloads.

We would also like to invite you to attend a free webinar on Visible Analyst tailored to your specific needs.

Entity Relationship Diagram with generated SQL schema

Modeling of interaction between application and users, showing actual sequence of application

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