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   March 1995

2. Report Type

3. Dates covered (from... to )

4. Title & subtitle

5a. Contract or Grant #

5b. Program Element #

5c. Project #

5d. Task #

5e. Work Unit #

6. Author(s)
   Budlong, F; Ganska, R

7. Performing Organization Name & Address

8. Performing Organization Report #

9. Sponsoring/Monitoring Agency Name & Address
   Software Technology Support Center
   OO-ALC/TISE
   7278 4th Street
   Hill AFB, UT 84056-5205

10. Monitor Acronym

11. Monitor Report #

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13. Supplementary Notes

14. Abstract

15. Subject Terms

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<th>19. Limitation of Abstract</th>
<th>20. # of Pages</th>
<th>21. Responsible Person (Name and Telephone #)</th>
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<tr>
<td>16. Report Unclass</td>
<td></td>
<td></td>
<td>Randy Wright (801) 777-9732</td>
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STSC

Process Technologies Method
and Tool Report
(Volume II)

March 1995

Faye Budlong
Ralph Ganska

Process Technology Evaluation Project
Robert Hanrahan
Technical Program Manager
This technical report was prepared by the

Software Technology Support Center
Ogden ALC/TISE
Hill AFB, UT 84056

The ideas and findings in this report should not be construed as an official Air Force position. It is published in the interest of scientific and technical information exchange.
Preface

This document, Volume II of the Process Technologies Method and Tool Report, provides a detailed review of process products and IDEF training information. For more information on the topics in this report, to order copies of Volume I, or to order future copies of Volume II, please contact the STSC customer service department at 801-777-7703 or DSN 777-7703, FAX to 801-777-8069 or DSN 777-8069, or email to process@software.hill.af.mil.

Volume I of the Process Technologies Method and Tool Report, is a synopsis of the progress of the Software Technology Support Center (STSC) in evaluating process technologies. Areas covered in the report include process assessment, process modeling, and process enactment, where process enactment is defined as the use of a formal process definition to guide and control the software process. Both process methods and computer aided process engineering tools are included. The report defines process technologies, identifies tools and software engineering environments that support process technologies, discusses the value of emphasizing process in improving software quality, and examines the effective use of process technologies. The report also attempts to identify the future directions of process technologies to help in planning long-range strategies.

The targets of Volume II of this report are process technologists who have a need for detailed technology-specific information and already have a good understanding of process concepts, terminology, and trends. The information is aimed at those who must make the decisions about acquiring process technology and prepare their organizations for its effective use.

Volume II of the Process Technologies Method and Tool report was created because the initial report was too large to fit into one volume. The two volumes were quickly created for a release at the Software Technology Conference. As a result this volume contains only selected information. Our next rewrite will improve the organization of the report.

Although the material presented in this publication has been reviewed for technical accuracy, no guarantees are made or implied. In particular, though the authors have
attempted to incorporate reviewer revisions and suggestions wherever possible, this does not imply that the reviewers concur with the technical accuracy of the report. In addition, product specifications are subject to change by the vendor without notice. Therefore readers should always verify information independently and evaluate it in relationship to their needs.
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Appendix C - Process Technology Product Critiques..........................47
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1 Volume II Information

Volume II of the Process Technologies Method and Tool Report contains detailed information on process products and IDEF training information. This volume was intended for process technologists who already have an understanding of basic process concepts, terminology, and trends. We feel that readers with this type of need would most likely be product and service vendors, as well as those in the community tasked with researching, buying, or utilizing process products and services.

With new and improved technologies emerging every day, it is a challenge to keep on top of all aspects within the process domain. We encourage readers and vendors to inform us of any modifications/discrepancies found in this report by contacting the STSC.

The mission of the Software Technology Support Center (STSC) is to assist Air Force Software Organizations to identify, evaluate, and adopt technologies that will improve; the quality of their software products, their efficiency in producing them, and their ability to accurately predict the cost and schedule of their delivery. For this reason, we urge those readers with questions, concerns, and/or a need for assistance with process efforts to contact the STSC customer service department at 801-777-7703 or DSN 777-7703, FAX to 801-777-8069 or DSN 777-8069, or email to process@software.hill.af.mil.
Appendix B - Process Technology Product Sheets
This appendix contains a product list and product information sheets for technologies and tools. The product list provides a quick reference for known tools. The list contains vendor information, points of contact, phone numbers, electronic bulletin board service phone number, email address (if possible) and a comment. If the App B column of a product is checked then this report contains a product information sheet. Users of these reports should be able to make preliminary tool assessments based on the provided information. Information on pricing, contact, support, process technology areas covered, intended users of the technology or tool, intended application area, primary methodology base, hardware platforms, and general tool capabilities is included. The information in the reports was obtained directly from the vendors.

There are tools in the product list for which there is no associated product information sheet. This condition occurs because there was insufficient available information to create the product information sheet, either because the vendor did not supply information in time for publication or because the tool was added to the tool list too late for the creation of a product information sheet.

The STSC can be contacted for both unpublished and updated reports that may be available.

<table>
<thead>
<tr>
<th>TOOL TECHNOLOGY</th>
<th>DEVELOPER</th>
<th>POINT OF CONTACT</th>
<th>APP</th>
<th>COMMENTS</th>
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<tr>
<td>ABLE Concensus</td>
<td>TRIUNE Software, Inc.</td>
<td>Alan Dennis</td>
<td></td>
<td>Groupware based process modeling tool.</td>
</tr>
<tr>
<td></td>
<td>2900 Presidential Dr.</td>
<td>TEL: 513-613-5348</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Suite 240</td>
<td>FAX: 513-427-9964</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Fairborn, OH 45324</td>
<td><a href="mailto:adennis@uga.cc.nag.edu">adennis@uga.cc.nag.edu</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABLE PM</td>
<td>TRIUNE Software, Inc.</td>
<td>Doug Bernard</td>
<td></td>
<td>Used to be AutoSADT</td>
</tr>
<tr>
<td></td>
<td>2900 Presidential Dr.</td>
<td>TEL: 513-427-9900</td>
<td></td>
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<tr>
<td></td>
<td>Fairborn, OH 45324</td>
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<td></td>
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<tr>
<td>Ada Process Programming</td>
<td>University of Massachusetts</td>
<td>Stanley M. Sutton, Jr.</td>
<td></td>
<td>Ada superset providing machine-executable support (developed as part of the DARPA Arcadia project).</td>
</tr>
<tr>
<td>Language based on Aspen (APPL/A)</td>
<td></td>
<td>TEL: 413-545-0609</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>FAX: 413-545-1249</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td><a href="mailto:sutton@cs.umass.edu">sutton@cs.umass.edu</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| AGE/ASA | Verilog, Inc.  
3010 LBJ Freeway  
Suite 900  
Dallas, TX 75234 | Andy Gordon  
TEL: 214-241-6595  
FAX: 214-241-6594  
sales@logitech.com | ✓ Requirements and testing workbench based on SADT/IDEF0. |
|---------|-----------------|----------------|-----------------------|
| AI0 WIN | Knowledge Based Systems  
1500 University Dr. East  
College Station, TX 77840-2335 | Marketing Dept.  
TEL: 409-260-5274  
FAX: 409-260-1965  
BBS: 409-260-4606  
products@kbsi.com | ✓ DEF0 package for PC.  
(Issue of simulating their IDEF0 models being worked.) |
| Apt     | Computer Science  
Department  
University of Colorado  
Boulder, CO 80309-0430  
Part of Arcadia project | Dennis Heimbigner  
TEL: 303-492-6643  
FAX: 303-492-2844 | Apt translates programs written in a subset of the AAPL/A process programming language into an equivalent Ada program that may be compiled and executed. (APPL/A is a process programming language used in some process-driven environments.) |
| Articulator Environment | USC System Factory  
Project  
Information and Management Dept.  
USC  
Los Angeles, CA 90089-1421 | Dr. Walt Scacchi  
TEL: 213-740-4782  
FAX: 213-740-8494  
scacchi@gilligan.usc.edu | ✓ Used to be System Factory Project |
| Authormate | Eclectic Solutions  
Corporation  
POC: C.A. (Al) Irvine  
764th Fifth Ave, Suite B  
San Diego, CA 92101-6918 | TEL: 619-696-7529  
FAX: 619-558-7928 | ✓ Used to be called "COINS." This is a complete modeler's workstation environment. |
| CAIS-A | SofTech, Inc.  
10875 Rancho Bernardo Rd  
Suite 100  
San Diego, CA 92127 | Gary Pritchett  
TEL: 619-451-9318  
FAX: 619-451-9327  
garyp@nosc.mil | ✓ Does not provide for process modeling; however, it provides lower-level capabilities upon which one may build those capabilities.  
Was controlled by AJPO |
| CASE* Method | Oracle Corp.  
500 Oracle Parkway  
Suite 4  
Redwood Shores, CA 94065 | TEL: 800-633-0596  
| Continuus CM & PT | Continuus Software  
108 Pacifica  
Irvine, CA 92718 | Dina Hannum  
TEL: 714-453-2200  
FAX: 714-453-2276  
Info@continuus.com | ✓ Company used to be CaseWare |
| Design/CPN | Meta Software Corp.  
125 Cambridge Park Dr.  
Cambridge, MA 02140 | Lou Zand  
TEL: 617-876-9725  
FAX: 617-661-2008  
seltzer@metasoft.com | ✓ Tool that can be used to support process definition using the formal principles of hierarchical colored Petri nets. |
| Design/IDEF | Meta Software Corp.  
125 Cambridge Park Dr.  
Cambridge, MA 02140 | Patty Kostusia \( \text{T} \)EL: 617-576-6920  
FAX: 617-661-2008  
patty@metasoft.com | ✓ Tool can be used to support process definition using IDEF graphical notation. Design/CPN can then be used for simulation if that is desired. (A MetaSoftware tool exists for translating IDEF diagrams to Petri Net format.) |
| EasyCASE Professional | Evergreen CASE Tools  
8522 154th Avenue, NW  
Redmond, WA 98052 | Brian Hansford \( \text{T} \)EL: 206-881-5149  
FAX: 206-883-7676 | ✓ Process Modeling supporting graphical editing, with an underlying data dictionary and report generation |
| ESPRIT Portable Common Tool Environment (PCTE) | W. Wahlchlebel, CEC  
25 rue Archimede  
1040 Brussels, Belgium  
32-2-236-0257  
suppliers: Bull  
Louveciennes, France  
Software Sciences  
London, England | Repository interface specification standard; does not provide explicitly for process modeling services; however, it provides lower-level capabilities upon which one may build those capabilities. |
| FastPACE | James Martin & Company  
Reston, VA  
TEL: 312-693-5040  
FAX: 312-693-3112 | Tailored for the Information Engineering method as implemented under KnowledgeWare's ADW; integrated with other JMC tools. |
| firstcase | AGS Management Systems  
1012 W. Ninth Avenue  
King of Prussia, PA 19406  
TEL: 610-265-1550  
FAX: 610-265-1230 | Process management for component CASE; interfaces to several major CASE tools and unifies the mgmt of tools, techniques, policies and procedures. |
| FirstEP | International Software Systems, Inc.  
9430 Research Blvd.  
Bldg. IV-250  
Austin, TX 78759  
TEL: 512-338-4774  
FAX: 512-338-4704  
syeh@issi.com | An enterprise and process description method. Enterprise modeling includes process modeling, infrastructure modeling, and information modeling. Used in the Pro-SLCSE environment. |
| Formal Software Process Notation (FSPN) | Software Productivity Consortium  
SPC Building  
2214 Rock Hill Road  
Hamden, VA 22070-9858 | Notation designed to map to a software development environment to permit process management. |
| I-CASE OMT | Westmount USA, Inc.  
111 Anza Blvd. Suite 300  
Burlingame, CA 94010  
TEL: 415-348-4853  
FAX: 415-348-6821  
stbo@west.nl | ✓ Tool for developers to meet goals set by Object-Oriented Modeling Techniques. |
| I-CASE Yourdon | Westmount USA, Inc.  
111 Anza Blvd. Suite 300  
Burlingame, CA 94010  
TEL: 415-348-4853  
FAX: 415-348-6821  
stbo@west.nl | ✓ Supports full development life cycle of business information system |

* The project's goal was to provide a common interface for the Esprit program and define a complete set of framework services to support tool development. The PCTE interfaces were submitted for ISO standardization in 1990.
| IDEF/LEVERAGE | D. Appleton  
1334 Park View Ave  
Suite 220  
Manhattan Beach, CA  
90266 | TEL: 310-546-7575 | Personal IDEF/LEVERAGE is a PC-based IDEF0 modeling package. Regular IDEF/LEVERAGE on large host mainframe can read these models via a standard modeling language (SML, AML) for reporting, analysis, merging, etc. |
| IDEFine | Wizdom Systems Inc  
1300 Iroquois Avenue  
Naperville, IL 60563 | Don Sloan  
TEL: 708-357-3000  
FAX: 708-357-3059 | PC-based IDEF0 and IDEF1X process definition tools; exports in format readable by CACTUS SIM process for simulation. |
| Integrated Knowledge Environment (IKE) | Knowledge Base Engineering  
71 Rhoads Center Drive  
Cincinnati, OH 45458 | Sam or Greg Nusinou  
TEL: 513-434-1716  
| Integrated Model Development Environment (IMDE) | TASC  
2555 University Blvd.  
Fairborn, OH 45324 | Patrick Clark  
TEL: 513-426-1040  
fax: 513-426-8888 | Supports graphical, object-oriented construction of simulation models. |
| Integration Softboard | Atherton Technology  
1335 Bordeaux Drive  
Sunnyvale, CA 94089 | Denise Boucher  
408-734-9822 | Allows the behavior of any software engineering process written in any programming language to be used by the Atherton Backplane to enable the automation of development rules. |
| ISPW | Benchmark Technologies  
Suite 300  
839 5th Ave. SW  
Calgary, Alberta T2P 3C8 | Christina McGill  
TEL: 403-269-7499  
FAX: 403-265-2379 | Can integrate a variety of CASE tools to help manage the development process. |
| KI-Shell (Knowledge-based Integration Shell) | UES, Inc.  
5162 Blazer Memorial Pkwy  
Dublin, Ohio 43017-1339 | Charles R. Ditchendorf  
TEL: 614-793-2562  
FAX: 614-792-0998  
chuck@columbus.ues.com | Advertised as "The best off-the shelf object-oriented product for process modeling and enactment." |
| METHOD/1 | Andersen Consulting  
69 West Washington St.  
Chicago, IL 60602 | TEL: 312-580-0069  
FAX: 312-507-2548 | Provides an automated system for work planning and project control based on Andersen's proprietary information planning development process. One of 5 major modules in Andersen's life-cycle application development environment, Foundation. |
| MethodMaker | Mark V Systems  
16400 Ventura Blvd. #303  
Encino, CA 91436 | TEL: 818-995-7671  
FAX: 818-995-4267  
info@markv.com | Supports graphical modeling of a process notation. |
| MicroWorld Creator | MicroWorlds, Inc.  
47 Third Street, Suite 200  
Cambridge, MA 02141 | Elizabeth Peterson  
TEL: 617-225-0025  
FAX: 617-225-0028  
mworlds@aol.com | Tools takes as input a description of a system expressed graphically. |
| MVP-L | The Multi-View Modeling Project (MVP)  
University of Maryland  
College Park, MD 20742 | Christopher M. Lott  
cml@cs.umd.edu | Rule-based textual process representation language. |
<table>
<thead>
<tr>
<th>Software Technology Support Center</th>
</tr>
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<tbody>
<tr>
<td><strong>Object Modeling Workbench (OMW)</strong></td>
</tr>
<tr>
<td><strong>ObjectMaker</strong></td>
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<td><strong>PACE</strong></td>
</tr>
<tr>
<td><strong>PLAN/1</strong></td>
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<tr>
<td><strong>ProCAP</strong></td>
</tr>
<tr>
<td><strong>Process Modeling Language (PML)</strong></td>
</tr>
<tr>
<td><strong>Process Weaver</strong></td>
</tr>
<tr>
<td><strong>ProcessMaker</strong></td>
</tr>
</tbody>
</table>
| Process/Wall | CS Dept  
University of Colorado  
Boulder, CO 80309-0430 | Dennis Heimbigner  
TEL: 303-492-6643  
FAX: 303-492-2844  
dennis@cs.colorado.edu | ✓ | Supports Process State Server. |
| Professional DYNAMO | Pugh Roberts Associates, Inc.  
41 William Linskey Way  
Cambridge, MA 02142 | Simone O'Donoghue  
TEL: 617-864-8880  
FAX: 617-864-8884  
70662.3552@compuserve.com | ✓ | System Dynamics approach. |
| Programmer Command Center | Compuware Corporation  
31440 Northwestern Highway  
| ProSIM | Knowledge Based Systems, Inc.  
1500 University Drive East  
College Station, TX 77840-2335 | Marketing Dept.  
TEL: 409-260-5274  
FAX: 409-260-1965  
products@kbsi.com | ✓ | Generates simulation models.  
Complete process capture. |
| ProSLCSE | International Software Systems, Inc.  
9430 Research Blvd.  
Bldg. IV-250  
Austin, TX 78759 | Stephanie Yeh  
TEL: 512-338-4774  
FAX: 512-338-4704  
syeh@issi.com | ✓ | Part of a suite of tools which include  
ProBuilder, ProSimulator, etc. |
| ProTEM | SCIL  
13812 SE 240th  
| Prototype Engineering Information System (PREIS) | Honeywell Systems and Research Center  
3660 Technology Dr.  
Minneapolis, MN 55418 | John Kimball | | PREIS employs an object-oriented  
engineering approach which features  
a control points and policies  
mechanism for automating  
administrative actions. |
| RDD-100 (Requirements Driven Development) | Ascent Logic Corporation  
180 Rose Orchard Way  
Suite 200  
San Jose, CA 95134 | TEL: 408-943-0630  
FAX: 408-943-0705 | | The RDD language and notation  
(Behavior Diagram notation)  
combines data, control and functions  
in one graphical display. |
| S**4 | MicroWorlds, Inc.  
47 Third Street #200  
Cambridge, MA 02141 | Elizabeth Peterson  
TEL: 617-225-0025  
FAX: 617-225-0028  
mworlds@aol.com | ✓ | Interactive Modeling. Uses STELLA  
and MicroWorlds simulation  
language. |
| SIMprocess | CACI  
1100 North Glebe Road  
Arlington, VA 22201 | Ron Flauaus  
TEL: 703-841-4430 | | Simulates imported Wizdom Systems  
IDEF0 models. Can also simulate  
their own NON-IDEF models. |
| Software Process Management System (SPMS) | SAIC STC  
Cielo Center One, Suite 380  
1250 Capital of Texas Hwy. S.  
Austin, TX 78746 | Jim Terrel  
| Software through Pictures (StP) | Interactive Development Environments  
595 Market Street, 10th Floor  
San Francisco, CA 94105 | TEL: 415-543-0900  
FAX: 415-543-0145 | Upper CASE tool that supports structured and object-oriented process definition development. |
| Statemate | I-Logix, Inc.  
Three Riverside Drive  
Andover Research Park  
Andover, MA 01810 | Thomas M. McLaughlin  
TEL: 408-562-6146  
FAX: 408-562-6175  
tom@ilogix.com | Systems engineering tool which can be used to define and simulate a process definition. |
| STELLA II  
(and a similar product by High Performance Systems: IThink) | High Performance Systems, Inc.  
45 Lyme Road  
Hanover, NH 03755 | TEL: 603-643-9636  
FAX: 603-643-9502 | System Dynamics approach. |
| SYNERGY | CASE Methods Development Corp.  
100 N. Central Expressway Suite 710  
Richardson, TX 75080 | TEL: 214-437-9700  
FAX: 214-644-8175 | ✓ Provides a fully integrated Process Management Environment |
Ft. Collins, CO 80525-9599 | TEL: 303-229-3800 | Process engine that can be used to provide process automation, definition, guidance and metrics in a SoftBench process environment. |
| System Architect | Popkin Software & Systems, Inc.  
11 Park Place  
New York, NY 10007 | TEL: 212-571-3434 | Supports a variety of methodologies, OOD, structure charts, state transition, decomposition, entity-relationship diagrams, flow charts. |
| Teamwork | Cadre Technologies, Inc.  
222 Richmond Street  
Providence, RI 02903 | Barry Ackerman  
TEL: 401-351-5950  
FAX: 401-351-7380 | Upper CASE tool which can be and has been used for process definition. |

* The Software Technology for Adaptable, Reliable Systems (STARS) Program is sponsored by ARPA, contracted through Air Force Electronic System Division, and involves three cooperating Primes - Boeing, IBM, and Paramax - and a large number of subcontractors. The STARS goal is to increase software productivity, reliability, and quality by synergistically integrating support for modern software development processes and modern reuse concepts within state-of-the-art software engineering environment technology.
<table>
<thead>
<tr>
<th>Tool</th>
<th>Software</th>
<th>Contact Person</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>TemPRO</td>
<td>Software Consultants Int. Ltd</td>
<td>Lawrence Peters</td>
<td>Provides a complete and unique complement of simulation capabilities.</td>
</tr>
<tr>
<td>Toolbuilder</td>
<td>IPSYS Software Marlborough Court Pickford Street, Macclesfield SK11 6JD, Cheshire, UK</td>
<td>TEL: 508-463-0006 FAX: 508-462-9198</td>
<td>A Meta-CASE environment that enables rapid prototyping and development of customized CASE environments.</td>
</tr>
<tr>
<td>Virtual Software Factory (VSF) Limited</td>
<td>Virtual Software Factory 8300 Boone Boulevard Vienna, VA 22182</td>
<td>Dr. Mel Selwood 703-848-9282</td>
<td>Workbench that allows user to specify methodology; methodology independent - can be configured to support any method; has been used for SADT, OOD and IDEF.</td>
</tr>
<tr>
<td>WorkFlow Analyzer</td>
<td>Meta Software Corp. 125 Cambridge Park Drive Cambridge, MA 02140</td>
<td>Lou Zand TEL: 617-876-9725 FAX: 617-661-2008 <a href="mailto:seltzer@metasoft.com">seltzer@metasoft.com</a></td>
<td>Models can be tested under differing &quot;What if&quot; scenarios.</td>
</tr>
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A10 WIN by Knowledge Based Systems, INC.

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<tr>
<th>Product Information:</th>
<th>Contact Information:</th>
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<tbody>
<tr>
<td>Version Number:</td>
<td>For vendor: in business since: 1988</td>
</tr>
<tr>
<td>Release Date:</td>
<td>For R&amp;D: date research began: 1987</td>
</tr>
<tr>
<td>Frequency of Updates:</td>
<td>Address: 1500 University Drive East</td>
</tr>
<tr>
<td>Date of First Release:</td>
<td>College Station, TX 77840-2335</td>
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<tr>
<td>Number Sold/Released:</td>
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<th>Point of Contact: Marketing Department</th>
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<td>Single User Price:</td>
<td>Phone Number: 409-260-5274</td>
</tr>
<tr>
<td>Site License:</td>
<td>Fax Number: 409-260-1965</td>
</tr>
<tr>
<td>Multi-Copy Price:</td>
<td>E-mail Address: <a href="mailto:products@kbsi.com">products@kbsi.com</a></td>
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<tr>
<td>Upgrade Costs:</td>
<td>Electronic BBS: 409-260-4606</td>
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Process Technology Areas/Capabilities:

<table>
<thead>
<tr>
<th>Definition</th>
<th>Process Examples</th>
<th>Enactment</th>
<th>Asset Library</th>
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<td>Modeling</td>
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Intended Application Area:

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<tr>
<th>MIS</th>
<th>Technical</th>
<th>Real-Time</th>
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</table>

Intended Users of Technology/Tool:

<table>
<thead>
<tr>
<th>Analysts</th>
<th>Quality Assurance</th>
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Methodology Base:

<table>
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<th>IDEF</th>
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</table>

Configurations:

<table>
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<tr>
<th>Operating Enviroment:</th>
<th>Windows 3.1</th>
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<tbody>
<tr>
<td>Minimum System Requirements:</td>
<td>4 MB memory</td>
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</table>

Data Import/Export Information:

| Exports: IDL, Formated Text Files, Cost Data for spreadsheets |

Description/Purpose:

Automated IDEF0 modeling tool that captures information into pools for reuse throughout a project. Supports Activity Based Costing through the capture, rollup, and export of costing information into various spreadsheet software packages.
ABLE Consensus by Triune Software, Inc.

Product Information:
- Version Number: 2.0
- Release Date: March 95
- Frequency of Updates: Annual
- Date of First Release: March 93
- Number Sold/Released: 120

Pricing:
- Single User Price: $2,500
- Site License: $32,000
- Multi-Copy Price: $14,900 for 20
- Upgrade Costs: Call for cost
- Maintenance Price: 10%

Contact Information:
- For vendor: in business since: January 1989
- For R&D: date research began: January 1990
- Address: 2900 Presidential Dr. Suite 240 Fairborn, OH 45324
- Point of Contact: Keith Lomstock/Alan Dennis
- Phone Number: 513-427-9900/706-613-5348
- Fax Number: 513-427-9964
- E-mail Address: adennis@uga.cc.nga.edu
- Electronic Bulletin Board:
- Customer Support: 513-427-9900

Process Technology Areas/Capabilities:
- Definition
- Modeling

Intended Application Area:
- MIS
- Real-Time
- Government
- Medical
- Technical
- Scientific Development
- Environmental
- Utilities
- Embedded System Development
- Transaction Processing
- Business/Finance
- Manufacturing
- CM

Intended Users of Technology/Tool:
- Process Engineer
- End Users
- Software Developers
- Configuration Managers
- Software Managers
- Analysts
- Software Developers
- Quality Assurance

Methodology Base:
- Structured Analysis
- IDEF

Configurations:
- Operating Environment: DOS 6.X and above
- Minimum System Requirements: 486 with 4 megs of RAM

Data Import/Export Information:
- IDL

Description/Purpose:
ABLE Consensus is a groupware-based process modeling tool that enables a group to quickly build a business process model. Because all members of the group can work on the same model simultaneously for up to 100 computers, the model is developed much more rapidly than using tools designed to permit only one person to work at one time.
### Product Information:
- **Version Number:** 2.1
- **Release Date:** December 94
- **Frequency of Updates:** 6-9 months
- **Date of First Release:** Spring '89
- **Number Sold/Released:**

### Contact Information:
- **For vendor: in business since:** January 89
- **For R&D: date research began:** 1987
- **Address:** 2900 Presidentail Dr., Suite 240
  Fairborn, OH 45324
- **Point of Contact:** Doug Bernard
- **Phone Number:** 513-427-9900
- **Fax Number:** 513-427-9964
- **E-mail Address:**
- **Electronic Bulletin Board:**
- **Customer Support:** 513-427-9900

### Pricing:
- **Single User Price:**
  - $495 Executive
  - $1995 (v2.1 for Windows)
  - $1995 (v2.0 for Mac)
- **Maintenance Price:** $495

### Process Technology Areas/Capabilities:
- Process-Driven
- Modeling

### Intended Application Area:
- MIS
- Government
- Business/Finance
- Manufacturing

### Intended Users of Technology/Tool:
- Process Engineer
- Software Developers
- Analysts
- Quality Assurance

### Methodology Base:
- Structured Analysis
- IDEF

### Configurations:
- **Operating Environment:** Windows 3.1
- **Minimum System Requirements:** 386 DX

### Data Import/Export Information:
- IDL Import/Export
- Print to .bmp files

### Description/Purpose:
BLE-PM is an IDEF0 based BPI tool. Graphically models large or small systems; compare alternatives; examine options for growth and improvement; understand the cost and impact of proposed changes.
**Product Information:**

<table>
<thead>
<tr>
<th>Version Number:</th>
<th>2.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release Date:</td>
<td>1993</td>
</tr>
<tr>
<td>Frequency of Updates:</td>
<td>one/year</td>
</tr>
<tr>
<td>Date of First Release:</td>
<td>1986</td>
</tr>
<tr>
<td>Number Sold/Released:</td>
<td>1500</td>
</tr>
</tbody>
</table>

**Pricing:**

| Single User Price: | $15,000 |
| Site License:      | contact salesperson |
| Multi-Copy Price:  | contact salesperson |
| Upgrade Costs:     | contact salesperson |
| GSA Price:         | not available |
| Maintenance Price: | 10% of price |

**Contact Information:**

| For vendor: in business since: | 1984 |
| For R&D: date research began:  | 1984 |
| Address:                       | 3010 LBJ Freeway, Ste 900 |
|                               | Dallas, Texas 75234 |
| Point of Contact:              | Andy Gordon |
| Phone Number:                  | 214-241-6595 |
| Fax Number:                    | 214-241-6594 |
| E-mail Address:                | sales@logtech.com |
| Electronic Bulletin Board:     | |
| Customer Support               | 800-424-3095 |

**Process Technology Areas/Capabilities:**

| Modeling | Other: Analysis |

**Intended Application Area:**

| Technical | Real-time |
| Utilities  | Government |
|           | Embedded Systems Development |
|           | Scientific Development |

**Intended Users of Technology/Tool:**

| Analysts | Software Developers | Software Managers |

**Methodology Base:**

| IDEF |

**Configurations:**

| Operating Enviroment: | Sun, HP, IBM, VAX, DEC |
| Minimum System Requirements: | 30 MB Disk space, 20 MB RAM |

**Data Import/Export Information:**

**Description/Purpose:**

ASA is a CASE tool based on the IDEF-0 formalism. Its graphical interface provides a user-friendly environment to simulate, model and generate test cases for system or software level analysis.
The Articulator Environment by USC System Factory Project

Product Information:
Version Number: June, 1994
Release Date: June, 1994
Frequency of Updates: 12 months
Date of First Release: Dec. 1991
Number Sold/Released: 8

Contact Information:
Date research began: 1981
Address: Information and Operations Management Dept.
University of Southern California
Los Angeles, CA 90089-1421
Point of Contact: Dr. Walt Scacchi
Phone Number: 213-740-4782
Fax Number: 213-740-8494
E-mail Address: scacchi@gilligan.usc.edu

Pricing:
Distributed to research sponsors per contracted terms

Process Technology Areas/Capabilities:
Assessment Metrics Support Definition Process Examples
Modeling Asset Library Analysis Process-Driven SEE
Enactment Visualization Simulation Process Integration
Other: Process-Level Interoperability, Process Scheduling & Process Repair

Intended Application Area:
Technical MIS Government Real-time
Business/Finance Medical Training

Intended Users of Technology/Tool:
Software Developers Software Managers Process Engineers
Can be customized to any defined user role

Methodology Bases:
Process Language Entity Process Modeling Rule-based
Object-oriented Behavior-oriented Knowledge-Based
Methodology Independent (therefore can also support structured analysis, system dynamics, Petri nets and
IDEF though these are considered to be weaker methodologies by the System Factory developers)

Configurations:
Operating Environment: SUN SPARC Stations-2, Knowledge-Craft from Carnegie Group
Minimum System Requirements: 24 MB, 75 MB swap/disk

Data Import/Export Information:
Compatible with heterogeneous, distributed data and tool repositories

Description/Purpose:
We have developed and continue to evolve and deliver a configurable environment of software process
engineering technologies for large-scale development applications. Our technology is being transferred
into commercial products at this time. The largest project entails the development of a prototype process-
driven environment for use in the B-2 Division at Northrop, Inc., in Pico Rivera, CA. Additional reference
material is available.
## Authormate by Eclectic Solutions Corporation

<table>
<thead>
<tr>
<th><strong>Product Information:</strong></th>
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<tr>
<td>Version Number: 1.1</td>
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<tr>
<td>Release Date: March 94</td>
<td>For R&amp;D: date research began:</td>
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<tr>
<td>Frequency of Updates:</td>
<td>Address: 764 Fifth Avenue, Suite B</td>
</tr>
<tr>
<td>Date of First Release:</td>
<td>San Diego, CA 92101-6918</td>
</tr>
<tr>
<td>Number Sold/Released: NA</td>
<td>Point of Contact: C.A. (Al) Irvine</td>
</tr>
<tr>
<td></td>
<td>Phone Number: 619-696-7529</td>
</tr>
<tr>
<td></td>
<td>Fax Number: 619-558-7928</td>
</tr>
<tr>
<td><strong>Pricing:</strong></td>
<td>E-mail Address:</td>
</tr>
<tr>
<td>Single User Price: $495</td>
<td>Electronic Bulletin Board:</td>
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<tr>
<td>Site License: None</td>
<td>Customer Support: 619-546-0804</td>
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<td>Multi-Copy Price: $495</td>
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<td>Upgrade Costs: None</td>
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<td>Maintenance Price: 1st year free; 250 per year</td>
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### Process Technology Areas/Capabilities:

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<th>Definition</th>
<th>Modeling</th>
<th>Metric Support</th>
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### Intended Application Area:

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<tr>
<th>MIS</th>
<th>Technical</th>
<th>Embedded System Development</th>
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<tbody>
<tr>
<td>Real-Time</td>
<td>Scientific Development</td>
<td>Transaction Processing</td>
</tr>
<tr>
<td>Government</td>
<td>Environmental</td>
<td>Business/Finance</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>Medical</td>
<td>Utilities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CM</td>
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</tbody>
</table>

### Intended Users of Technology/Tool:

<table>
<thead>
<tr>
<th>Process Engineer</th>
<th>Software Developers</th>
<th>Software Managers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analysts</td>
<td>Configuration Managers</td>
<td>Software Developers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Quality Assurance</td>
</tr>
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### Methodology Base:

<table>
<thead>
<tr>
<th>Structured Analysis</th>
<th>Entity Process Modeling</th>
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<tbody>
<tr>
<td>Data Model Diagrams</td>
<td>IDEF</td>
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</tbody>
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### Configurations:

<table>
<thead>
<tr>
<th>Operating Environment: DOS</th>
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<tbody>
<tr>
<td>Minimum System Requirements: 530Kb Base</td>
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### Data Import/Export Information:

<table>
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<th>ASCII Text (all platforms) and IDL</th>
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</thead>
</table>

### Description/Purpose:

Support SADT (Activity and Data Modeling) and IDEF0 (Functional Modeling), Model Maintenance and Reuse, Model Distribution, and Modeling Team (Groupware Support).

---

STSC Process Technologies Product Sheet Version 2.0c
## CAIS-A by SofTech, Inc.

### Product Information:

<table>
<thead>
<tr>
<th>Version Number:</th>
<th>5.5G</th>
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<tbody>
<tr>
<td>Release Date:</td>
<td>Feb. 1992</td>
</tr>
<tr>
<td>Frequency of Updates:</td>
<td>as required</td>
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<tr>
<td>Date of First Release:</td>
<td>June 1990</td>
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### Contact Information:

<table>
<thead>
<tr>
<th>In business since:</th>
<th>1969</th>
</tr>
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<tbody>
<tr>
<td>Date research began:</td>
<td>1985</td>
</tr>
<tr>
<td>Address:</td>
<td>10875 Rancho Bernardo Rd Suite 100 San Diego, CA 92127</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Point of Contact:</th>
<th>Gary Pritchett</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Number:</td>
<td>619-451-9318</td>
</tr>
<tr>
<td>Fax Number:</td>
<td>619-451-9327</td>
</tr>
<tr>
<td>E-mail Address:</td>
<td><a href="mailto:garyp@nosc.mil">garyp@nosc.mil</a></td>
</tr>
</tbody>
</table>

### Pricing:

Maintained under government contract; free to government agencies.

### Process Technology Areas/Capabilities:

<table>
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<tr>
<th>Definition</th>
<th>Enactment</th>
<th>Modeling</th>
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<tbody>
<tr>
<td>Process-Driven Framework</td>
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<td></td>
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### Intended Application Area:

<table>
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<th>Technical</th>
<th>Software Engineering Environment</th>
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### Intended Users of Technology/Tool:

<table>
<thead>
<tr>
<th>Software Developers</th>
<th>Software Managers</th>
<th>Process Engineers</th>
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### Methodology Base:

<table>
<thead>
<tr>
<th>Process Language</th>
<th>Entity Process Modeling</th>
<th>Object-oriented</th>
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</table>

### Configurations:

<table>
<thead>
<tr>
<th>Operating Environment:</th>
<th>VAX/VMS</th>
<th>SUN-3/UNIX</th>
<th>SUN-4/UNIX</th>
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<tbody>
<tr>
<td>Minimum System Requirements:</td>
<td>16MB RAM minimum</td>
<td></td>
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</table>

### Data Import/Export Information:

### Description/Purpose:

CAIS-A is an implementation of a software engineering environment framework providing platform independence and supporting tool integration.
## Continuus CM & PT by Continuus Software

### Product Information:

<table>
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<tr>
<th>Version Number:</th>
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<tbody>
<tr>
<td>Release Date:</td>
<td>November 94</td>
</tr>
<tr>
<td>Frequency of Updates:</td>
<td>1 major per year</td>
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<td>Date of First Release:</td>
<td>1990</td>
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<td>Number Sold/Released:</td>
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### Contact Information:

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<th>1987</th>
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<tbody>
<tr>
<td>For R&amp;D: date research began:</td>
<td>1987</td>
</tr>
<tr>
<td>Address:</td>
<td>108 Pacifica</td>
</tr>
<tr>
<td></td>
<td>Irvine, CA 92718</td>
</tr>
</tbody>
</table>

### Pricing:

- Continuus CM & PT are available on floating user license
- Single User Price: $4000
- Site License: Yes
- Multi-Copy Price: Sliding Scale Qty. Discount
- Upgrade Costs: Include in Maintenance
- Maintenance Price: % of Purchase Price

### Process Technology Areas/Capabilities:

<table>
<thead>
<tr>
<th>Definition</th>
<th>Process Examples</th>
<th>Process-Driven SEE</th>
<th>Enactment</th>
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<tbody>
<tr>
<td>Asset Library</td>
<td>Problem Tracking</td>
<td>Configuration Management</td>
<td>Process-Driven Framework</td>
</tr>
<tr>
<td>Modeling</td>
<td>Process-Supported-SEE</td>
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</tr>
</tbody>
</table>

### Intended Application Area:

- MIS: Technical
- Real-Time: Scientific Development
- Government: Environmental
- Medical: Utilities
- Embedded System Development
- Transaction Processing
- Business/Finance
- CM

### Intended Users of Technology/Tool:

- End Users
- Software Managers
- Configuration Managers
- Quality Assurance
- Software Developers

### Methodology Base:

- Rule-Based
- Methodology Independent
- Object Oriented

### Configurations:

- Operating Environment: Sun, HP, SGI, IBM RS/6000
- Minimum System Requirements: 16 MB Client, 32 MB Server (Minimum)

### Data Import/Export Information:

Continuus/CM provides for data to be imported to and exported from its environment

### Description/Purpose:

Continuus/CM & PT are client/server based configuration management and problem tracking tools. Target to the Unix market which provide complete control over the software development environment. The products provide a predefined, modifiable process for rapid implementation, as well as a suite or customization tools for end users. Designed for development teams, Continuus products provide a graphical user interface and an SCS command line interface, and seamlessly integrated with popular development tools.
Design/CPN by Meta Software Corporation

Product Information:
Version Number: 2.0
Release Date: Oct. 1993
Date of First Release: April, 1989
Number Sold/Released: 100+

Contact Information:
In business since: Dec. 1985
Date research began: 1986
Address: 125 Cambridge Park Drive
Cambridge, MA 02140
Phone Number: 617-576-6920

Point of Contact: Lou Zand
Phone Number: 617-876-9725
Fax Number: 617-661-2008
E-mail Address: seltzer@metasoft.com
Cust. Support: cpn-tech-support@metasoft.com

Pricing:
Single User Price: $24,000
Site License: Quoted upon request
Multi-Copy Price: Quoted upon request
Upgrade Costs: Inc in maintenance
GSA Price: $19,200 single license
Maintenance Price: $4000/yr (1st yr free)

Process Technology Areas/Capabilities:

<table>
<thead>
<tr>
<th>Definition</th>
<th>Metrics Support</th>
<th>Modeling</th>
<th>Process Examples</th>
</tr>
</thead>
</table>

Intended Application Area:
Technical Simulation All

Intended Users of Technology/Tool:
Software Developers Process Engineers Analysts

Methodology Base:
IDEF Petri Nets

Configurations:
Operating Environment: Mac, X-Windows (Sun Solaris, HPUX)
Minimum System Requirements: Varies, depending on platform.

Data Import/Export Information:
ASCII, User-definable import/export facility
- IDL, spreadsheets, Activity-Based Costing, CASE (Knowledge ADW), Node Tree

Description/Purpose:
Design/CPN is based on the principles of colored Petri nets (CP-nets) which embody mathematical and graphical approaches to system behavior. Using Design/CPN, you can graphically explore the characteristics and limits of design and create high-quality models within a formal framework. In addition, the tool is tailored for rigorous analyses of behavioral issues such as concurrency, deadlock, or safety that repeatedly surface in complex distributed systems.

Design/CPN consists of an editor for modeling the system and a simulator for executing the model. The modeling inscriptions are defined in a version of Standard ML, a functional programming language. Using standard ML, you can also create code segments for sophisticated animation and instrumentation. Design/IDEF IDEFO process models can be automatically converted to dynamic models and transferred to Meta's Workflow Analyzer for behavioral simulation and analysis. In addition, Design/IDEF can act as the cornerstone for BPR, Workflow, CASE and financial analysis through its export/import facilities.

STSC Process Technologies Product Sheet Version 2.0c
Design/IDEF by Meta Software Corporation

**Product Information:**
- Version Number: 3.5
- Release Date: March 1995
- Date of First Release: Dec. 1987
- Number Sold/Released: 1000+

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<td>Single User Price: $3,995</td>
<td>In business since: Dec. 1985</td>
</tr>
<tr>
<td>Site License: Quoted upon request</td>
<td>Date research began: 1986</td>
</tr>
<tr>
<td>Multi-Copy Price: Quoted upon request</td>
<td>Address: 125 Cambridge Park Drive</td>
</tr>
<tr>
<td>Upgrade Costs: Inc. in maintenance</td>
<td>Cambridge, MA 02140</td>
</tr>
<tr>
<td>GSA Price: $3196 (1 license)</td>
<td>Phone Number: 617-576-6920</td>
</tr>
<tr>
<td>Maintenance Price: $600/yr (1st yr incl)</td>
<td>Phone Number: 617-576-6920 x35</td>
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**Process Technology Areas/Capabilities:**

<table>
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<tr>
<th>Definition</th>
<th>Metrics Support</th>
<th>Modeling</th>
<th>Process Examples</th>
</tr>
</thead>
</table>

**Intended Application Area:**
- Business Process Redesign
- Technical
- Workflow
- MIS

**Intended Users of Technology/Tool:**
- Software Developers
- Managers
- Process Engineers and Analysts

**Methodology Base:**
- IDEF0 Process Modeling
- IDEF1X Data Modeling

**Configurations:**
- Operating Environment: MS-Windows 3.X, Mac, X-Windows (Sun Solaris, HPUX, AIX)
- Minimum System Requirements: 4 MB or greater, depending on platform

**Data Import/Export Information:**
- AML, SML, ASCII, ANSI X3.138-1988 IRDS
- IDL, spreadsheets, Activity-Based Costing, Node Tree, CASE (Knowledge ADW)

**Description/Purpose:**

Design/IDEF supports and automates modeling for Business Process Redesign/Reengineering. Design/IDEF supports the public domain IDEF methodology (IDEF0 for process modeling and IDEF1X for data modeling). Design/IDEF is very easy to learn and is an excellent communication tool. Design/IDEF's intelligent graphical engine responds to your modeling needs as you work. You can define complex systems through gradual, hierarchical decomposition of detail to produce models which are easily read by anyone in the corporate structure. Design/IDEF supports: an integrated glossary for defining terms, a flexible data dictionary, IDEF0 and IDEF1X integration, Activity Based Costing, links to CASE, techniques for import/export of information (AML, SML, IDL), links to simulation.

STSC Process Technologies Product Sheet Version 2.0c

21
EasyCASE Professional by Evergreen CASE Tools

**Product Information:**
- **Version Number:** 4.2
- **Release Date:** November 1994
- **Frequency of Updates:** 6 - 18 Months
- **Date of First Release:** 1989
- **Number Sold/Released:** 10,000+

**Contact Information:**
- **For vendor:** in business since: 1989
- **For R&D:** date research began: 1989
- **Address:** 8522 154th Avenue, NW
- **Redmond, WA 98502**
- **Point of Contact:** Brian Hansford
- **Phone Number:** 206-881-5149
- **Fax Number:** 206-883-7676
- **E-mail Address:**
- **Electronic Bulletin Board:**
- **Customer Support:** Same as above

**Pricing:**
- **Single User Price:** Please Call
- **Site License:**
- **Multi-Copy Price:**
- **Upgrade Costs:**
- **Maintenance Price:** NA

**Process Technology Areas/Capabilities:**
- **Definition**
- **Process Examples**
- **Modeling**

**Intended Application Area:**
- **All**

**Intended Users of Technology/Tool:**
- **Process Engineer**
- **Software Developers**
- **Software Managers**
- **Analysts**
- **End Users**

**Methodology Base:**
- **Rule-Based**
- **Structured Analysis**
- **Entity Process Modeling**
- **E-R Model**
- **State Transition Diagrams**
- **IDEF**
- **Data Model Diagrams**

**Configurations:**
- **Operating Environment:** Windows
- **Minimum System Requirements:** 4 MB RAM, 5MB disk space

**Data Import/Export Information:**
- DATABASE III+, ASCII, SDF, CSV

**Description/Purpose:**
- EasyCASE Professional v4.2 -> Process Modeling
- EasyCASE Database Engineer -> Process and Data Modeling

EasyCASE Professional v4.2 offers process and data modeling functionality with all of the standard structured analysis and design methodologies, and chart diagrams. In addition, a series of reports can be generated from an integrated shareable data dictionary.

Database Engineer is a development tool that supports schema generation and reverse engineering for xBASE and SQL, triggers, stored procedures, domains (user defined data types), and referential integrity constraints.
**Product Information:**

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<thead>
<tr>
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<tbody>
<tr>
<td>Version Number:</td>
<td>Release 3.4</td>
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<tr>
<td>Release Date:</td>
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</tr>
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<td>Frequency of Updates:</td>
<td>Annual</td>
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<td>Date of First Release:</td>
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**Pricing:**

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<tbody>
<tr>
<td>firstcase Methodology</td>
<td>$29,500</td>
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<tr>
<td>firstcase Automation</td>
<td>Volume pricing</td>
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<tr>
<td>GSA Price</td>
<td>7% discount</td>
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<tr>
<td>Maintenance Price</td>
<td>15% of Total</td>
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**Contact Information:**

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<tr>
<td>For vendor: in business since:</td>
<td>1969</td>
</tr>
<tr>
<td>Address:</td>
<td>1012 W. Ninth Avenue</td>
</tr>
<tr>
<td></td>
<td>King of Prussia, PA 19406</td>
</tr>
<tr>
<td>Point of Contact:</td>
<td>Valerie Palamountain</td>
</tr>
<tr>
<td>Phone Number:</td>
<td>610-265-1550</td>
</tr>
<tr>
<td>Fax Number:</td>
<td>610-265-1230</td>
</tr>
<tr>
<td>E-mail Address:</td>
<td></td>
</tr>
<tr>
<td>Electronic Bulletin Board:</td>
<td></td>
</tr>
<tr>
<td>Customer Support:</td>
<td>610-265-6305</td>
</tr>
</tbody>
</table>

**Process Technology Areas/Capabilities:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Definition</td>
<td>Process Examples</td>
</tr>
<tr>
<td>Enactment</td>
<td>Modeling</td>
</tr>
<tr>
<td>Other: Assessment</td>
<td>Process-Driven Framework</td>
</tr>
<tr>
<td></td>
<td>Metric Support</td>
</tr>
</tbody>
</table>

**Intended Application Area:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Technical</td>
</tr>
<tr>
<td></td>
<td>MIS</td>
</tr>
<tr>
<td></td>
<td>Real-Time</td>
</tr>
</tbody>
</table>

**Intended Users of Technology/Tool:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Engineer</td>
<td>Software Developers</td>
</tr>
<tr>
<td>Software Managers</td>
<td>Quality Assurance</td>
</tr>
</tbody>
</table>

**Methodology Base:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Structured Analysis</td>
<td>Entity Process Modeling</td>
</tr>
<tr>
<td>Behavior-Oriented</td>
<td>E-R Model</td>
</tr>
<tr>
<td></td>
<td>Methodology Independent</td>
</tr>
<tr>
<td></td>
<td>Data Model Diagrams</td>
</tr>
</tbody>
</table>

**Configurations:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Enviroment:</td>
<td>Networked based client/server application, SQL integrated database.</td>
</tr>
<tr>
<td>Minimum System Requirements:</td>
<td>Dedicated server running OS/2 or Netware</td>
</tr>
</tbody>
</table>

**Data Import/Export Information:**

**Description/Purpose:**

`firstcase` is an automated Process Management, Estimating and Project Management System with an integrated database housing the complete family of `firstcase` Methodologies including Structured, Client/Server, Information Engineering and Enterprise strategic planning.
I-CASE OMT by Westmount USA, Inc.

Product Information:
Version Number: 3.0
Release Date: June 94
Frequency of Updates: Annual
Date of First Release: January 94
Number Sold/Released: 300

Contact Information:
For vendor: in business since: 1986
For R&D: date research began: 1990
Address: 111 Anza Blvd. Suite 300
Yorkville CA, 94010

Point of Contact: Stephen Boskin
Phone Number: 415-348-4835
Fax Number: 415-348-6821
E-mail Address: sbos@west.nl
Electronic Bulletin Board: Customer Support: helpdesk@west.nl

Pricing:
Single User Price: 12,900
Site License: N/A
Multi-Copy Price: Discounted
Upgrade Costs: Included in Maintenance
Maintenance Price: 15% of License cost

Process Technology Areas/Capabilities:

<table>
<thead>
<tr>
<th>Definition</th>
<th>Asset Library</th>
<th>Framework</th>
<th>Modeling</th>
</tr>
</thead>
</table>

Intended Application Area:

<table>
<thead>
<tr>
<th>Government</th>
<th>Environmental</th>
<th>Business/Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturing</td>
<td>Medical</td>
<td>Utilities</td>
</tr>
</tbody>
</table>

Intended Users of Technology/Tool:

<table>
<thead>
<tr>
<th>Process Engineer</th>
<th>Software Developers</th>
<th>Software Managers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analysts</td>
<td>Software Developers</td>
<td></td>
</tr>
</tbody>
</table>

Methodology Base:

<table>
<thead>
<tr>
<th>Object Oriented</th>
<th>State Transition Diagrams</th>
<th>Other: OMT</th>
</tr>
</thead>
</table>

Configurations:

<table>
<thead>
<tr>
<th>Operating Environment:</th>
<th>All major UNIX platforms; Win '95 when released</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum System Requirements:</td>
<td>16MB RAM 40-50 MB Disk</td>
</tr>
</tbody>
</table>

Data Import/Export Information:


Description/Purpose:

Westmount I-CASE OMT is an Open Integrated Computer Aided Software Engineering (CASE) tool (based on X and OSP/Motif) for developers to meet the goals set by Object-Oriented Modeling Techniques. It provides full life-cycle support and seamless target integration. Westmount I-CASE OMT generates client/server applications for C++, New Era, CA/Open Ingres and Informix environments.
I-CASE Yourdon by Westmount USA Inc.

**Product Information:**

<table>
<thead>
<tr>
<th>Version Number</th>
<th>3.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release Date</td>
<td>2/95</td>
</tr>
<tr>
<td>Frequency of Updates</td>
<td>2/yr</td>
</tr>
<tr>
<td>Date of First Release</td>
<td>1988</td>
</tr>
<tr>
<td>Number Sold/Released</td>
<td>2000</td>
</tr>
</tbody>
</table>

**Contact Information:**

- For vendor: in business since: 1986
- For R&D: date research began: 1987
- Address: 111 Anza Blvd, Suite 300
  Burlingame, CA 94010

**Pricing:**

- Single User Price: $12,900
- Site License: N/A
- Multi-Copy Price: Discounted by # of Seats
- Upgrade Costs: Included in Maintenance
- Maintenance Price: 15% of list

**Point of Contact:** Stephen Boskin
- Phone Number: 415-348-4853
- Fax Number: 415-348-46821
- E-mail Address: stbo@wmt.nl
- Electronic Bulletin Board: helpdesk@wmt.nl

**Process Technology Areas/Capabilities:**

<table>
<thead>
<tr>
<th>Definition</th>
<th>Process Examples</th>
<th>Process-Driven SEE</th>
<th>Process-Supported-SEE</th>
<th>Modeling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset Library</td>
<td>Process-Driven Framework</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Intended Application Area:**

- MIS
- Government
- Manufacturing
- Real-Time
- Environmental
- Medical
- Transaction Processing
- Business/Finance
- Utilities

**Intended Users of Technology/Tool:**

- Process Engineer
- Software Developers
- Software Managers
- Analysts

**Methodology Base:**

- Structured Analysis
- Data Model Diagrams
- Entity Process Modeling
- Backus-Naur Notation
- E-R Model

**Configurations:**

- Operating Environment: All major UNIX platforms, Windows 95 when released.
- Minimum System Requirements: 16 MB (RAM), 40-50 MB (Disk)

**Data Import/Export Information:**

- CDIF

**Description/Purpose:**

Westmount I-CASE for Yourdon is an Integrated Computer Aided Software Engineering (I-CASE) environment supporting the full development life cycle of business information systems. It's Upper CASE toolset supports process definition and data modeling using primarily structured analysis and Yourdon methodology. It's lower CASE toolset supports code generation for all major RDBMS's as well as C, multiple 4GL's, 3GL's and GUI builders.
**Integrated Knowledge Environment (IKE) by Knowledge Base Engineering**

**Product Information:**
- Version Number: PC: 2.1.2, Mac: 2.0
- Release Date: PC: 1/95, Mac: NA
- Frequency of Updates: Every Three Months
- Date of First Release: PC: 11/92, Mac: 1/91
- Number Sold/Released: 25

**Contact Information:**
- For vendor: in business since: 4/86
- For R&D: date research began: 4/86
- Address: 71 Rhoads Center Drive
  - Centerville, OH 45458
- Point of Contact: Sam or Greg Nusinou
- Phone Number: 513-434-1716
- Fax Number: 513-434-4246
- E-mail Address: 
- Electronic Bulletin Board: 
- Customer Support: 513-434-1716

**Pricing:**
- Commercial version not available at this time.
- Government purpose license rights.

**Process Technology Areas/Capabilities:**
- Definition Process Examples
- Enactment Process-Driven Framework
- Configuration Management Process-Supported-SEE
- Process-Driven SEE Modeling
- Problem Tracking Metric Support
- Transaction Processing CM
- Business/Finance
- Utilities

**Intended Application Area:**
- Technical Real-Time
- Government Environmental
- Manufacturing Medical
- Transaction Processing
- Business/Finance
- Utilities

**Intended Users of Technology/Tool:**
- All

**Methodology Base:**
- Rule-Based Structured Analysis
- Object Oriented Behavior-Oriented
- Entity Process Modeling State Transition Diagrams
- IDEF

**Configurations:**
- Operating Environment: PC Dos/Windows for workgroups 3.11, Mac OS 7.0 or greater
- Minimum System Requirements: (Mac Quadra 16 MB, PC 486 DX2 16 MB) or greater

**Data Import/Export Information:**
- Common multi-media formats and ASCII.

**Description/Purpose:**
The integrated Knowledge Environment (IKE) provides advanced authoring capabilities for rapidly evolving intelligent multi-media process oriented computer based training and knowledge capture applications. The IKE architecture contains easy to use components for dynamically integrating process data, graphics, data objects, forms, rules, text, video, bit mapped images, and computer-off-the-shelf software into single or multi-user applications without any computer programming. IKE PC version can access and update data in an Oracle client/server database environment via SQL*Net.

STSC Process Technologies Product Sheet Version 2.0c
### ISPW by Benchmark Technologies

#### Product Information:
- **Version Number:** 2.0
- **Release Date:** 1995
- **Frequency of Updates:** 18 mo.
- **Date of First Release:** 1988
- **Number Sold/Released:**

#### Contact Information:
- **In business since:** 1986
- **Date research began:** 1985
- **Address:** Suite 300, 839 5th Ave. SW
- **Calgary, Alberta**
- **Canada T2P 3C8**
- **Point of Contact:** Christina McGill
- **Phone Number:** 403-269-7499
- **Fax Number:** 403-265-2379

### Pricing:
- **$30,000 - $25,000**
- **Maintenance Price:** 15% of list price

### Process Technology Areas/Capabilities:
- Process-Supported SEE
- Change Management
- Process-Driven SEE
- Configuration Management

### Intended Application Area:
- MIS

### Intended Users of Technology/Tool:
- Software Developers
- Software Managers
- Quality Assurance
- End Users

### Methodology Base:
- Methodology Independent

### Configurations:
- **Operating Environment:** MVS (IBM Mainframe) and connected OS/2 and DOS/Windows workstations

### Data Import/Export Information:

### Description/Purpose:

ISPW is an automated application management environment spanning many development functions including change and configuration management; it is a framework for tool interaction and a work environment for the management of procedures, methods, technologies, standards, and people under a common control policy. ISPW can be customized for the organization's own process and standards and provides a comprehensive audit trail. Support for specialized group and project documentation requirements. ISPW has integrated a variety of CASE tools to help manage the development process.
## Product Information:

- **Version Number:** V 1.2.3
- **Release Date:** 6/15/94
- **Frequency of Updates:** 6-12 Months
- **Date of First Release:** October 1990
- **Number Sold/Released:** 60 Development/4000 RT

## Pricing:

- **Single User Price:** Development $18k, Runtime $1.2k
- **Site License:** Available
- **Multi-Copy Price:** Negotiated quantity discounts
- **Upgrade Costs:** none
- **Maintenance Price:** Call for details

## Process Technology Areas/Capabilities:

<table>
<thead>
<tr>
<th>Definition</th>
<th>Process Examples</th>
<th>Process-Driven SEE</th>
<th>Enactment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset Library</td>
<td>Process-Driven</td>
<td>Framework</td>
<td>Problem Tracking</td>
</tr>
<tr>
<td>Modeling</td>
<td>Process-Supported-SEE</td>
<td>Metric Support</td>
<td></td>
</tr>
</tbody>
</table>

## Intended Application Area:

- **MIS**
- **Government**
- **Medical**
- **Other:** Engineering Change Orders, Regulatory Compliance, ISO

## Intended Users of Technology/Tool:

- **Process Engineer**
- **Government**
- **Medical**
- **Other:** Engineering Change Orders, Regulatory Compliance, ISO

## Methodology Base:

- **Rule-Based**
- **IDEF**
- **E-R Model**

## Configurations:

- **Operating Environment:** DEC Vax/VMS, DEC Ulitrix, DOS-Window, RS/6000 AIX, IBM OS/2, SGI IRIX, Sun OS, Sun Solaris, HP 9000 UX
- **Minimum System Requirements:** Development/Server 32 MB Memory, 40 MB Hard Drive; Runtime 16 MB Memory, 20 MB Hard Drive.

## Data Import/Export Information:

- **IDEF0, KnowledgeWare ADW, SQL Tables. IDEF3 planned.**
- **Uses Oracle, Sybase, and/or DB2 for process repositories. Uses SQLNet to access product data within Enterprise LAN/WAN on any database. Full process metrics available.**

## Description/Purpose:

Models and compiles executable runtime code for managing workflow processes between multiple users, provides decision support and application tool integration. It is the work management tool of choice for establishing interoperability standards for virtual enterprises on the NII.
**MethodMaker by Mark V Systems**

**Product Information:**
- **Version Number:** 3.4
- **Release Date:** Jan 95
- **Frequency of Updates:** twice/year
- **Date of First Release:** August 1993
- **Number Sold/Released:** 250

**Contact Information:**
- **In business since:** 1974
- **Address:** 16400 Ventura Blvd #303
  Encino, CA 91436

**Pricing:**
- **Single User Price:** $10,000
- **Site License:** Call for info
- **Multi-Copy Price:** Call for info
- **Maintenance Price:** 15% of cost

**Point of Contact:** Marketing
- **Phone Number:** 818-995-7671
- **Fax Number:** 818-995-4267
- **E-mail Address:** info@markv.com
- **Customer Support:** support@markv.com

**Process Technology Areas/Capabilities:**
- **Definition:** Prototyping of Method Tool Support

**Intended Application Area:**
- **All**
- **Other:** Software and Process Engineering, System

**Intended Users of Technology/Tool:**
- **Software Developers**
- **Software Managers**
- **Process Engineers**

**Methodology Base:**
- **Structured Analysis:** Petri Nets
- **Rule-Based:** Object Oriented
- **IDEF:** Methodology Independent
- **Entity Process Modeling:** Behavior-oriented

**Configurations:**
- **Operating Environment:** Most UNIX, VMS and PC Windows
- **Minimum System Requirements:**
  - UNIX/VMS - 12 MB
  - PC - 4 MB

**Data Import/Export Information:**
- Under Development

**Description/Purpose:**
MethodMaker is a meta method tool generator for developing and extending process and method notations. MethodMaker supports graphical modeling of a process notation and then automatically generates Process Maker predicate logic rule support.

*STSC Process Technologies Product Sheet Version 2.0c*
**MicroWorld Creator by MicroWorlds, Inc.**

**Product Information:**

<table>
<thead>
<tr>
<th>Version Number:</th>
<th>2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release Date:</td>
<td>4/92</td>
</tr>
<tr>
<td>Frequency of Updates:</td>
<td></td>
</tr>
<tr>
<td>Date of First Release:</td>
<td>1988</td>
</tr>
<tr>
<td>Number Sold/Released:</td>
<td>approx. 1000</td>
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**Contact Information:**

<table>
<thead>
<tr>
<th>In business since:</th>
<th>1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date research began:</td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td>47 Third Street, Suite 200 Cambridge, MA 02141</td>
</tr>
</tbody>
</table>

**Pricing:**

| Single User Price:     | $680.00      |
| Site License:          | Runtime vers. avail. |
| Multi-Copy Price:      |             |
| Upgrade Costs:         |             |
| GSA Price:             |             |
| Maintenance Price:     | No charge   |

**Point of Contact:** Elizabeth Peterson

<table>
<thead>
<tr>
<th>Phone Number:</th>
<th>617-225-0025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fax Number:</td>
<td>617-225-0028</td>
</tr>
<tr>
<td>E-mail Address:</td>
<td><a href="mailto:mworlds@aol.com">mworlds@aol.com</a></td>
</tr>
<tr>
<td>Electronic Bulletin Board:</td>
<td>-------</td>
</tr>
<tr>
<td>Customer Support:</td>
<td>617-225-0025</td>
</tr>
</tbody>
</table>

**Process Technology Areas/Capabilities:**

<table>
<thead>
<tr>
<th>Modeling</th>
<th>Process Examples</th>
<th>Process-Driven Framework</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metrics Support</td>
<td>Asset Library</td>
<td></td>
</tr>
</tbody>
</table>

**Intended Application Area:**

<table>
<thead>
<tr>
<th>Technical</th>
<th>Real-time</th>
<th>MIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other: Software Project Management/Strategy</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Intended Users of Technology/Tool:**

<table>
<thead>
<tr>
<th>Software Managers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other: Model Developers, Workshop Facilitators</td>
</tr>
</tbody>
</table>

**Methodology Base:**

<table>
<thead>
<tr>
<th>System Dynamics</th>
<th>Behavior-oriented</th>
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</thead>
</table>

**Configurations:**

<table>
<thead>
<tr>
<th>Operating Environment:</th>
<th>Mac OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum System Requirements:</td>
<td>1 MB RAM</td>
</tr>
</tbody>
</table>

**Data Import/Export Information:**

Import/Export text files and spreadsheet data.

**Description/Purpose:**

Tool takes as input a description of a system expressed graphically (using STELLA) or using the MicroWorlds simulation language. MicroWorlds Creator creates simulations and provides an effective user interface; mainly targeted for workshop/training use - e.g., for learning about software project dynamics and understanding software project management.
## Appendix B: Process Technology Information Sheets

### ObjectMaker by Mark V Systems

**Product Information:**
- **Version Number:** 3.4
- **Release Date:** Jan 95
- **Frequency of Updates:** twice / year
- **Date of First Release:** August 1992
- **Number Sold/Released:** 4000+

**Contact Information:**
- **In business since:** 1974
- **Address:** 16400 Ventura Blvd #303
  Encino, CA 91436

**Pricing:**
- **Single User Price:** $1,350
- **Site License:** Call for info
- **Multi-Copy Price:** Call for info
- **Maintenance Price:** 15% of cost

**Point of Contact:** Marketing
- **Phone Number:** 818-995-7671
- **Fax Number:** 818-995-4267
- **E-mail Address:** info@markv.com
- **Customer Support:** objectmaker@markv.com
  support@markv.com

**Process Technology Areas/Capabilities:**

<table>
<thead>
<tr>
<th>Behavioral modeling</th>
<th>Code generation</th>
<th>Data Modeling</th>
<th>Reverse Engineering</th>
</tr>
</thead>
</table>

**Intended Application Area:**
- Technical
- Real-time
- Commercial

**Intended Users of Technology/Tool:**
- Software Developers
- Software Managers
- Process Engineers

**Methodology Base:**
- ADARTS
- Booch
- Coad-Yourdon
- Data Flow Diagram
- DeMarco-Yourdon
- E-R Diagram
- State Chart
- Firesmith
- Gane-Sarson
- Hatley-Pirbhai
- Petri Net
- Shlaer-Mellor

**Configurations:**
- **Operating Environment:** DEC RISC, DG Avion, HP9000, IBM RS/6000, PC, Macintosh, MIPS RISC, Motorola 88000, Intel X86
- **Minimum System Requirements:**

**Data Import/Export Information:**

**Description/Purpose:**
ObjectMaker is a software development workbench using a variety of object-oriented methods and supporting analysis, design, code generation, and reverse engineering. All ObjectMaker editors and method definitions are integrated through a common semantic repository based on FCTE. Provides full online checking for completeness and consistency against the method design rules as designs are entered. ObjectMaker's rule-based architecture allows notations, semantics, code generation, methods, menus, and accelerator keys to be tailored to match language, industry and company-specific requirements. Works with language modules in Adagen (Ada) and Cgen (C and C++) which also provides code generation and reverse engineering.
SOFTWARE TECHNOLOGY SUPPORT CENTER

OBJECTORY by Objectory Corporation.

**Product Information:**
- **Version Number:** 3.5
- **Release Date:** February 1995
- **Frequency of Updates:** ~yearly
- **Date of First Release:** September 1990
- **Number Sold/Released:** ~1800

**Contact Information:**
- **For Vendor:** in business since:
- **For R&D:** date research began:
- **Address:** 300 Atlantic Street, Suite 1111
  Stamford, CT 06901
- **Point of Contact:** Lucia Jansen
- **Phone Number:** 203-363-7555
- **Fax Number:** 203-363-7556
- **E-mail Address:**
- **Electronic Bulletin Board:**
- **Customer Support:**

**Pricing:**
- **Single User Price:** Range from 3K-10K
- **Site License:** Negotiable
- **Multi-Copy Price:** Discounts up to 40%
- **Upgrade Costs:** Included in Maintenance
- **Maintenance Price:** 20% of listprice/year

**Process Technology Areas/Capabilities:**
- **Definition:** Configuration Management
- **Modeling:** Metric Support
- **Process Examples:** Other: OOA, OOD, OOBPR
- **Process-Driven SEE**

**Intended Application Area:**
- **MIS** Technical
- **Medical** Utilities
- **Transaction Processing** Business/Finance
- **Other:** Telecom

**Intended Users of Technology/Tool:**
- **Process Engineer** Software Developers
- **Analysts** Quality Assurance
- **Software Managers** Configuration Managers

**Methodology Base:**
- **Object-Oriented** Behavior-Oriented
- **Others:** Objectory, OOSE, Jacobson
- **State Transition Diagrams**

**Configurations:**
- **Operating Environment:** DOS/Windows, Win NT, OS/2, SUN/Sparc Solaris 1 and 2, IBM/RS6000/AIX, HP/UX
- **Minimum System Requirements:** >=16MB RAM on all platforms

**Data Import/Export Information:**
- Through Configuration Items (CI) to/from external archive. Full CM/VC support.

**Description/Purpose:**
Objectory is an integral OO system development process and a set of integrated tools, the Objectory support environment. Objectory is a full life cycle covering process for object oriented BPR (OO business modeling) and object oriented system development. Objectory is scalable to large scale development scenarios and large and complex systems. The support environment is highly configurable, flexible, and open tool this is easy to build into customer specific, complete, support environments. Objectory has been in use since 1990 and has been used in more than 100 real projects all over the world since.

STSC Process Technologies Product Sheet Version 2.0c

32
### Product Information:
- **Version Number:** 2.0
- **Release Date:** July 94
- **Frequency of Updates:** 6 months
- **Date of First Release:**
- **Number Sold/Released:**

### Contact Information:
- **For vendor:** in business since: 1988
- **For R&D:** date research began:
- **Address:** 47 Third Street #200
- **Cambridge, MA 02141**
- **Point of Contact:** Elizabeth Peterson
- **Phone Number:** 617-225-0025
- **Fax Number:** 617-225-0028
- **E-mail Address:** mworlds@aol.com
- **Electronic Bulletin Board:**
- **Customer Support:**

### Pricing:
- **Single User Price:** $640
- **Site License:**
- **Multi-Copy Price:**
- **Upgrade Costs:** Varies
- **Maintenance Price:**

### Process Technology Areas/Capabilities:
- Process Examples
- Process-Driven Framework
- Problem Tracking
- Modeling

### Intended Application Area:
- MIS
- Technical
- Manufacturing
- Environmental
- Government
- Medical
- Other: Project Management/Strategy

### Intended Users of Technology/Tool:
- Software Managers
- Analysts
- Others: Model Developers

### Methodology Base:
- Behavior-Oriented
- Other: System Dynamics

### Configurations:
- Operating Environment: IBM compatible PC w/ 80386 processor or better
- Minimum System Requirements: 4 MB RAM or more. DOS 3.1, Windows 3.1 or better

### Data Import/Export Information:
- OLE, DDE capabilities

### Description/Purpose:
- Designed to support a quantitative and experimental approach to management as described by the System Dynamics Method. Used to model all kinds of dynamic processes including large complex, multiple feedback systems.
ProCap by Knowledge Based Systems, Inc.

Product Information:
Version Number: 2.0
Release Date: December 1993
Frequency of Updates: As needed
Date of First Release:
Number Sold/Released:

Contact Information:
For vendor: in business since: 1988
For R&D: date research began: 1987
Address: 1500 University Drive East
College Station, TX 77840-2335
Point of Contact: Marketing Department
Phone Number: 409-260-5274
Fax Number: 409-260-1965
E-mail Address: products@kbsi.com
Electronic Bulletin Board: 409-260-4606
Customer Support: 409-260-5274

Pricing:
Single User Price: $2995
Site License: (Other pricing information available upon request)
Multi-Copy Price: Upgrade Costs:
Maintenance Price:

Process Technology Areas/Capabilities:
Definition Process Examples Modeling

Intended Application Area:
Manufacturing Business/Finance MIS

Intended Users of Technology/Tool:
Process Engineer Analysts

Methodology Base:
IDEF Behavior-Oriented

Configurations:
Operating Environment: Windows 3.1
Minimum System Requirements: 4 MB memory

Data Import/Export Information:
Formatted Text Files

Description/Purpose:
ProCap is used process capture and analysis and allows users to associate objects and contraints with processes. Allows you to model at multiple levels of detail. Build As-Is and To-Be models from the same dictionary of process elements.

STSC Process Technologies Product Sheet Version 2.0c
### Process Weaver by CAP GEMINI AMERICA

**Product Information:**
- Version Number: 2.01
- Release Date: December 1994
- Frequency of Updates: Quarterly
- Date of First Release: May 1992

**Contact Information:**
- For vendor: in business since: 1972
- For R&D: date research began: 1987
- Address: 8391 Old Courthouse Road, Vienna, VA 22182

**Pricing:**
Contact the vendor for pricing information

**Point of Contact:** Vincent Jorrano
**Phone Number:** 800-400-1511
**Fax Number:** 703-790-5824
**E-mail Address:** weaver@access.digex.net
**Electronic Bulletin Board:**
**Customer Support:** 800-400-1511

### Process Technology Areas/Capabilities:

<table>
<thead>
<tr>
<th>Process Examples</th>
<th>Process-Driven SEE</th>
<th>Process-Driven Framework</th>
</tr>
</thead>
<tbody>
<tr>
<td>Problem Tracking</td>
<td>Modeling</td>
<td>Enactment</td>
</tr>
</tbody>
</table>

### Intended Application Area:

<table>
<thead>
<tr>
<th>MIS</th>
<th>Technical</th>
<th>Scientific Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government</td>
<td>Business/Finance</td>
<td>CM</td>
</tr>
</tbody>
</table>

### Intended Users of Technology/Tool:

<table>
<thead>
<tr>
<th>Process Engineer</th>
<th>Software Managers</th>
<th>Configuration Managers</th>
<th>Analysts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Developers</td>
<td>Quality Assurance</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Methodology Base:

Petri Nets
Other: Work breakdown structures

### Configurations:

- Operating Environment: Sun SPARC, RS6000, HP9000, DEC Station, Windows 3.1 Client
- Minimum System Requirements:

### Data Import/Export Information:

- Workplan to/from Project Management Tools (MS Project, PMW, CAT, Schedule Publisher)

### Description/Purpose:

Process Weaver is a framework in which process enactment models can be implemented. Weaver allows the user to define the process using a hierarchical, top down approach using the Method Editor to input WBS structures. The tool then uses state models to control the enactment process and Petri Nets to control the overall sequencing of the processing.
**ProcessMaker by Mark V Systems**

<table>
<thead>
<tr>
<th>Product Information:</th>
<th>Contact Information:</th>
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<tbody>
<tr>
<td>Version Number: 3.4</td>
<td>In business since: 1974</td>
</tr>
<tr>
<td>Release Date: Jan 1095</td>
<td>Address: 16400 Ventura Blvd #303</td>
</tr>
<tr>
<td>Frequency of Updates: 4-6 mos.</td>
<td>Encino, CA 91436</td>
</tr>
<tr>
<td>Date of First Release: August 1993</td>
<td></td>
</tr>
<tr>
<td>Number Sold/Released: 200</td>
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<table>
<thead>
<tr>
<th>Pricing:</th>
<th>Point of Contact: Marketing</th>
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<tr>
<td>Single User Price: $1,350</td>
<td>Phone Number: 818-995-7671</td>
</tr>
<tr>
<td>Site License: Call for info</td>
<td>Fax Number: 818-995-4267</td>
</tr>
<tr>
<td>Multi-Copy Price: Call for info</td>
<td>E-mail Address: <a href="mailto:info@markv.com">info@markv.com</a></td>
</tr>
<tr>
<td>Upgrade Costs: Call for info</td>
<td>Customer Support: <a href="mailto:support@markv.com">support@markv.com</a></td>
</tr>
<tr>
<td>Maintenance Price: 15% of cost</td>
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<table>
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<tr>
<th>Process Technology Areas/Capabilities:</th>
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</thead>
<tbody>
<tr>
<td>Definition</td>
</tr>
<tr>
<td>Enactment</td>
</tr>
<tr>
<td>Customizable</td>
</tr>
<tr>
<td>Modeling</td>
</tr>
</tbody>
</table>

**Intended Application Area:**

All

**Intended Users of Technology/Tool:**

- Software Developers
- Software Managers
- Process Engineers
- Decision Support

**Methodology Base:**

- Process Language*
- Entity Process Modeling
- Behavior-oriented
- Others: STRIM, RADS

- Structured Analysis
- IDEF
- Methodology Independent
- Petri Nets
- Object-oriented

* Generates process language (or template of script) from graphic model for other tools

**Configurations:**

- Operating Environment: Most UNIX, VMS and PC Windows
- Minimum System Requirements: UNIX/VMS - 12 MB, PC - 4 MB

**Data Import/Export Information:**

Under Development

**Description/Purpose:**

ProcessMaker is a rule-driven repository-based graphical process modeling tool supporting more than 15 notations and techniques. Additional methods/notations are being added, and all are customizable. Extensions to generate templates/script for process analysis and enactment tools are under development. **STSC Process Technologies Product Sheet Version 2.0c**
### Process Wall by Computer Science Department, University of Colorado

<table>
<thead>
<tr>
<th>Product Information:</th>
<th>Contact Information:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Version Number:</strong> 1.0</td>
<td><strong>For vendor: in business since:</strong></td>
</tr>
<tr>
<td><strong>Release Date:</strong> February 1995</td>
<td><strong>For R&amp;D: date research began:</strong> July 1994</td>
</tr>
<tr>
<td><strong>Frequency of Updates:</strong> as needed</td>
<td><strong>Address:</strong> University of Colorado</td>
</tr>
<tr>
<td><strong>Date of First Release:</strong> February 1995</td>
<td>Boulder, CO 80309-0430</td>
</tr>
<tr>
<td><strong>Number Sold/Released:</strong> 5</td>
<td><strong>Point of Contact:</strong> Dennis Heimbigner</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Pricing:</th>
<th><strong>Electronic Bulletin Board:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Single User Price:</strong> Call for Information</td>
<td></td>
</tr>
<tr>
<td><strong>Site License:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Multi-Copy Price:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Upgrade Costs:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Maintenance Price:</strong></td>
<td></td>
</tr>
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</table>

### Process Technology Areas/Capabilities:

Enactment

### Intended Application Area:

| Government | Business/Finance | Manufacturing | CM |

### Intended Users of Technology/Tool:

| Process Engineer | Software Developers | Software Managers |

### Methodology Base:

Others: Process State Server

### Configurations:

<table>
<thead>
<tr>
<th>Operating Environment: Sun OS 4.x, OSF1.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum System Requirements:</td>
</tr>
</tbody>
</table>

### Data Import/Export Information:

### Description/Purpose:

The ProcessWall supports the representation of current process state independent of the processes by which it was constructed. This results in a system that is open and with low cost for insertion into existing environments. It supports user-programmed process viewers, and process programs may be written in any convenient language.
Professional DYNAMO 4.0 for Windows by Pugh Roberts

Product Information:
Version Number: 4.0
Release Date: December 1994
Frequency of Updates: 
Date of First Release: 
Number Sold/Released: 

Contact Information:
For vendor: in business since: 1963
For R&D: date research began: 
Address: 41 William Linskey Way
Cambridge, MA 02142

Pricing:
Single User Price: $1995 (Full usage)
Site License: 
Multi-Copy Price: (7+) $1495 (Full usage)
Upgrade Costs: 
Maintenance Price: 

Point of Contact: Simone O'Donoghue
Phone Number: 617-864-8880
Fax Number: 617-864-8884
E-mail Address: 70662.3552@compuserve.com
Electronic Bulletin Board: 
Customer Support: Todd Sjoblom

Process Technology Areas/Capabilities:
Definition Modeling Other: Simulation Software

Intended Application Area:
MIS Technical Business/Finance/Economics
Real-Time Government Environmental
Manufacturing Medical Utilities

Intended Users of Technology/Tool:
Process Engineer Managers

Methodology Base:
Other: Process Language System Dynamics

Configurations:
Operating Environment: IBM PC AT or compatible, Windows 3.1, Recommended: Math co-processor and Windows-compatible printer.
Minimum System Requirements: 2 MB RAM, 5 MB disk space

Data Import/Export Information:

Description/Purpose:
Professional DYNAMO 4.0 for Windows (PD4) is a software tool designed for creating models and performing analyses of complex systems such as businesses, markets and economies. PD4 is used in a broad variety of applications by business users. The core capability is to examine behavior of a complex system over time.

Features:
PD4 includes an Editor, Compiler, Simulator, Reporter, Documentor, all within the familiar Windows environment. Additional benefits: Built-in functions, Customized menus, Flexible printing capabilities, User-created macros, ithink/Stella converter, Arrays, Huge capacity allowing large models, and much more.

STSC Process Technologies Product Sheet Version 2.0c

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Appendix B: Process Technology Information Sheets

ProSIM by Knowledge Based Systems, Inc.

<table>
<thead>
<tr>
<th>Product Information:</th>
<th>Contact Information:</th>
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<tbody>
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<td>For vendor: in business since: 1988</td>
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<tr>
<td>Release Date: November 1993</td>
<td>For R&amp;D: date research began: 1987</td>
</tr>
<tr>
<td>Frequency of Updates: As needed</td>
<td>Address: 1500 University Drive East</td>
</tr>
<tr>
<td>Date of First Release:</td>
<td>College Station, TX 77840-2335</td>
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<tr>
<td>Number Sold/Released:</td>
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<table>
<thead>
<tr>
<th>Pricing:</th>
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</thead>
<tbody>
<tr>
<td>Single User Price: $5,995</td>
<td></td>
</tr>
<tr>
<td>Site License: (Other pricing information)</td>
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</tr>
<tr>
<td>Multi-Copy Price: available upon request</td>
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<tr>
<td>Upgrade Costs:</td>
<td></td>
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<td>Maintenance Price:</td>
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<table>
<thead>
<tr>
<th>Process Technology Areas/Capabilities:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Definition</td>
<td>Process Examples</td>
</tr>
<tr>
<td>Other: Simulation Generation</td>
<td>Modeling</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Intended Application Area:</th>
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</thead>
<tbody>
<tr>
<td>Business/Finance</td>
<td>Manufacturing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Intended Users of Technology/Tool:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Engineer</td>
<td>Analysts</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Methodology Base:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>IDEF</td>
<td>Behavior-Oriented</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Configurations:</th>
<th></th>
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<tbody>
<tr>
<td>Operating Enviroment: Windows 3.1</td>
<td></td>
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<tr>
<td>Minimum System Requirements: 386, 4 MB memory</td>
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<table>
<thead>
<tr>
<th>Data Import/Export Information:</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Formatted text file in/out. Generates simulation code</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description/Purpose:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete process capture support with automated generation of simulation models. Supports decomposition of processes and offers multiple representations of processes. Offers integrated object-to-process mapping and state transition modeling capabilities. Also captures process time and resource utilization.</td>
<td></td>
</tr>
</tbody>
</table>

STSC Process Technologies Product Sheet Version 2.0c

39
**ProSLCSE by International Software Systems, Inc.**

<table>
<thead>
<tr>
<th>Product Information:</th>
<th>Contact Information:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version Number:</td>
<td>For vendor: in business since: 1977</td>
</tr>
<tr>
<td>Release Date:</td>
<td>For R&amp;D: date research began:</td>
</tr>
<tr>
<td>Frequency of Updates: Annual</td>
<td>Address: 9430 Research Blvd., Bldg. IV-250</td>
</tr>
<tr>
<td>Date of First Release: May 1993</td>
<td>Austin, TX 78759</td>
</tr>
<tr>
<td>Number Sold/Released: 75</td>
<td>Point of Contact: Stephanie Yeh</td>
</tr>
<tr>
<td></td>
<td>Phone Number: 512-338-4774 ext. 702</td>
</tr>
<tr>
<td></td>
<td>Fax Number: 512-338-4704</td>
</tr>
<tr>
<td></td>
<td>E-mail Address: <a href="mailto:syeh@issi.com">syeh@issi.com</a></td>
</tr>
<tr>
<td></td>
<td>Electronic Bulletin Board:</td>
</tr>
<tr>
<td></td>
<td>Customer Support: 512-338-4774 ext. 745</td>
</tr>
</tbody>
</table>

| Pricing:                                  |                                             |
| Single User Price:                        |                                             |
| ProBuilder: $3,000                        |                                             |
| ProSimulator: $5,000                      |                                             |
| Both: $7,000                              |                                             |
| GSA: Available                            |                                             |

| Process Technology Areas/Capabilities:    |                                             |
| Definition Process Examples Modeling      |
| Other: Process Simulation                 |

| Intended Application Area:                |                                             |
| All                                       |                                             |

| Intended Users of Technology/Tool:        |                                             |
| Process Engineer Software Developers      |                                             |
| Quality Assurance Configuration Managers   |                                             |
| Software Managers Analysts                |                                             |

| Methodology Base:                         |                                             |
| Methodology Independent Other: Graphical Process Language |

| Configurations:                           |                                             |
| Operating Environment: SUN OS/Solaris     |                                             |
| Minimum System Requirements: Sparc 1, 50 MB disk space, 24 MB RAM, Graphics Monitor |

| Data Import/Export Information:           |                                             |
| None at present                          |                                             |

| Description/Purpose:                     |                                             |
| ProBUILDER is a graphical process definition tool that allows you to capture and fine tune your organization's process and infrastructure. Process definitions include activities, inputs, outputs, and resources assigned to activities. Activities are connected to one another through data connection, temporal (e.g., finish-start) connections, and logical (and/or) connections. Complex logic such as rework loops can be expressed. |
| ProSIMULATOR allows you to simulate the execution of processes. The simulation runs directly on the processes defined in ProBUILDER. This allows the user to assess a proposed new process or a changed process in a risk free environment. Cost and time and resource constraints are reported. |

STSC Process Technologies Product Sheet Version 2.0c

40
### Product Information:

<table>
<thead>
<tr>
<th>Version Number:</th>
<th>3.4R</th>
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<tbody>
<tr>
<td>Release Date:</td>
<td>September 94</td>
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<td>Frequency of Updates:</td>
<td>Quarterly</td>
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<tr>
<td>Date of First Release:</td>
<td>1/91</td>
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<td>Number Sold/Released:</td>
<td>200</td>
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### Contact Information:

- For vendor: in business since: 1988
- For R&D: date research began: 
- Address: 47 Third St., Suite 200
  Cambridge, MA 02141
- Point of Contact: Elizabeth Peterson
- Phone Number: 617-225-0025
- Fax Number: 617-225-0028
- E-mail Address: mworlds@aol.com
- Electronic Bulletin Board: none
- Customer Support: 617-225-0025

### Pricing:

- Single User Price: First copy: $4900
- Subsequent copies: $1950
- Upgrade Costs: 1st year free
- GSA Price: 
- Maintenance Price: No charge

### Process Technology Areas/Capabilities:

<table>
<thead>
<tr>
<th>Modeling</th>
<th>Process Examples</th>
<th>Process-Driven Framework</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metrics Support</td>
<td>Asset Library</td>
<td></td>
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</tbody>
</table>

### Intended Application Area:

<table>
<thead>
<tr>
<th>Technical</th>
<th>Real-time</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS</td>
<td>Project Management/Strategy</td>
</tr>
</tbody>
</table>

### Intended Users of Technology/Tool:

- Model Developers
- Software Managers

### Methodology Base:

- System Dynamics
- Behavior-oriented

### Configurations:

<table>
<thead>
<tr>
<th>Operating Environment:</th>
<th>Mac OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum System Requirements:</td>
<td>Mac II or better with 2 MB</td>
</tr>
</tbody>
</table>

### Data Import/Export Information:

- Import & export text files and spreadsheet data; connect to HyperCard, SuperCard, Wingz, etc.

### Description/Purpose:

Tool takes as input a description of a system expressed graphically (using STELLA) or using the MicroWorlds simulation language. S**4 allows the user to create his own interface. In addition, S**4 lets the modeler examine the simulation by allowing him to interactively walk his way down into the model.
Software Technology Support Center

Stmtate by I-Logix, Inc.

Product Information:
Version Number: 5.3
Release Date: July 94
Frequency of Updates: 2/year
Date of First Release: 1987
Number Sold/Released: 1500

Contact Information:
For vendor: in business since: 1986
For R&D: date research began: 1983
Address: Three Riverside Drive
Andover Research Park
Andover, MA 01810
Point of Contact: Thomas M. McLaughlin
Phone Number: 408-562-6146
Fax Number: 408-562-6175
E-mail Address: tom@ilogix.com
Electronic Bulletin Board: Customer Support: 508-682-4884

Pricing:
Single User Price:
Site License:
Multi-Copy Price:
Upgrade Costs:
Maintenance Price:

Process Technology Areas/Capabilities:
Definition Process-Driven SEE Process-Supported-SEE
Process Examples Process-Driven Framework Modeling
Enactment Configuration Management

Intended Application Area:
Embedded System Development Technical Real-Time
Scientific Development Government Environmental
Manufacturing Medical

Intended Users of Technology/Tool:
Process Engineer Software Developers Software Managers
Quality Assurance End Users

Methodology Base:
Entity Process Modeling Methodology Independent
Behavior-Oriented State Transition Diagrams
Other: Statechart/Stmtate Language

Configurations:
Operating Environment: SUN, HP, IBM, RS6000, Apollo, DEC(BMS, ULTRIX)
Minimum System Requirements: 16MB Minimum

Data Import/Export Information:
ASCII, CDIF Standard

Description/Purpose:
Stmtate allows for the graphical description and analysis of any system, whether it is a process,
computer, or an ASIC. Stmtate has been used for process modeling successfully at SEI, IBM,
Lockheed, Motorola, and

STSC Process Technologies Product Sheet Version 2.0c

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### Synergy by CASE Methods Development Corp.

#### Product Information:
- **Version Number:** V 3.0
- **Release Date:** April 1995
- **Frequency of Updates:** Annual
- **Date of First Release:** August 1991
- **Number Sold/Released:**

#### Contact Information:
- **For vendor in business since:** 1988
- **For R&D/ date research began:** 1988
- **Address:** Suite 710
  - 100 North Central Expressway
  - Richardson, TX 75080
- **Point of Contact:**
  - **Phone Number:** 214-437-9700
  - **Fax Number:** 214-644-8175
  - **E-mail Address:**
  - **Electronic Bulletin Board:**
  - **Customer Support:** 214-644-8173

#### Pricing:
- **Single User Price:** Contact Vendor for pricing information
- **Site License:**
- **Multi-Copy Price:**
- **Upgrade Costs:**
- **Maintenance Price:**

#### Process Technology Areas/Capabilities:

<table>
<thead>
<tr>
<th>Definition</th>
<th>Process Examples</th>
<th>Process-Driven SEE</th>
<th>Enactment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset Library</td>
<td>Process-Driven Framework</td>
<td>Problem Tracking</td>
<td>Modeling</td>
</tr>
<tr>
<td>Metric Support</td>
<td>Process-Supported-SEE</td>
<td>Configuration Management</td>
<td></td>
</tr>
<tr>
<td>Other: Resource Management and Time Reporting</td>
<td></td>
<td></td>
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</tbody>
</table>

#### Intended Application Area:
- **All**

#### Intended Users of Technology/Tool:
- **All**

#### Methodology Base:

<table>
<thead>
<tr>
<th>Structured Analysis</th>
<th>Entity Process Modeling</th>
<th>IDEF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methodology Independent</td>
<td>Object Oriented</td>
<td>Behavior-Oriented</td>
</tr>
<tr>
<td>State Transition Diagrams</td>
<td>E-R Model</td>
<td>Data Model Diagrams</td>
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</tbody>
</table>

#### Configurations:

<table>
<thead>
<tr>
<th>Operating Environment:</th>
<th>Windows 3.x</th>
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</thead>
<tbody>
<tr>
<td>Minimum System Requirements:</td>
<td>8 MB on Client with 20 MB hard disk space 16MB on Server with 50 MB hard disk space</td>
</tr>
</tbody>
</table>

#### Data Import/Export Information:

- Export and import methodology and standards text information
- Export and Import WBS, resources and work effort including support for MS Project

#### Description/Purpose:

Product is primarily designed to improve the development process used for the delivery of application systems. The focus is on quality, team communications and collaboration, and refinement of process definitions, standards and procedures. It provides a fully integrated Process Management Environment.
**TemPRO™ by Software Consultants, Int., Ltd.**

**Product Information:**
- **Version Number:** 2.60
- **Release Date:** March 95
- **Frequency of Updates:** 4-6 Months
- **Date of First Release:** 1991
- **Number Sold/Released:** >100

<table>
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<tr>
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<tbody>
<tr>
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<tr>
<td>Site License:</td>
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<tr>
<td>Multi-Copy Price:</td>
</tr>
<tr>
<td>Upgrade Costs:</td>
</tr>
<tr>
<td>Maintenance Price:</td>
</tr>
</tbody>
</table>

**Contact Information:**
- **For vendor: in business since:** 1982
- **For R&D: date research began:** 1987
- **Address:** 13812 SE 240th Street
  Kent, WA 98042-3321
- **Point of Contact:** Lawrence Peters
- **Phone Number:** 206-631-4212
- **Fax Number:** 206-631-2328
- **E-mail Address:** scll@interserv.com
- **Electronic Bulletin Board:** none
- **Customer Support:** 206-631-4212

**Process Technology Areas/Capabilities:**

<table>
<thead>
<tr>
<th>Process Examples</th>
<th>Modeling</th>
<th>Process-Driven Framework</th>
</tr>
</thead>
</table>

**Intended Application Area:**
- **MIS**
- **Manufacturing**
- **Government**
- **Embedded Systems Development**
- **Scientific Development**
- **Business/Finance**
- **Real-Time**
- **Transaction Processing**

**Intended Users of Technology/Tool:**
- **Process Engineer**
- **End Users**
- **Software Developers**
- **Software Managers**
- **Others: Process Owners**
- **Analysts**

**Methodology Base:**
- **IDEF**
- **Petri Nets**
- **Object Oriented**

**Configurations:**
- **Operating Environment:** IBM-PC and compatibles
- **Minimum System Requirements:** 486 DX processor, 4 MB RAM (8 recommended), VGA (color recommended), 3 MB hard disk space, MS/DOS, Windows 3.1 or better, mouse or other pointing device.

**Data Import/Export Information:**
- **Import:** From other copies of TemPRO; Next release will accept input from some IDEF products.
- **Export:** File formats for inclusion in other PC based software products including most word processors, spreadsheets and other tools. The export formats include RTF, comma delimited and tab delimited, all are user selectable.

**Description/Purpose:**

TemPRO is intended for use by managers who must control and refine processes ranging from software development to parts manufacturing. Although it provides a complete and unique complement of simulation capabilities including the use of statistical distributions, priorities, preemption and other features normally associated with simulation, users can develop sophisticated models and execute them without writing a single equation or line of pseudocode. In addition, TemPRO enables users to model activities which have multiple behaviors and multiple outcomes. It includes complete text processing capability and performs a broad range of analyses to assist users in attaining goals related to timing, policy violations, safety/security issues and others.

STSC Process Technologies Product Sheet Version 2.0c

44
WizdomWorks! For Windows by Wizdom Systems, Inc.

**Product Information:**

<table>
<thead>
<tr>
<th>Version Number:</th>
<th>2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release Date:</td>
<td>March 1, 1995</td>
</tr>
<tr>
<td>Frequency of Updates:</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Date of First Release:</td>
<td>Windows '93, DOS '87</td>
</tr>
<tr>
<td>Number Sold/Released:</td>
<td>~750</td>
</tr>
</tbody>
</table>

**Contact Information:**

| For vendor: in business since: | 1986 |
| For R&D: date research began: | 1986 |
| Address: | 1300 Iroquois Ave. |
| Naperville, IL 60563 |
| Point of Contact: | Rita Fecney |
| Phone Number: | 708-357-3000 |
| Fax Number: | 708-357-3057 |
| E-mail Address: | rita@wizdom.com |
| Electronic Bulletin Board: |
| Customer Support: | 800-494-9366 |

**Pricing:**

| Single User: | $6795 |
| Site License: | Call for quote |
| Multi-Copy: | Call for quote |
| Upgrade Costs: | Upgrade included in Maintenance |
| Maintenance: | 90 day free; 15% of list per year. |

**Process Technology Areas/Capabilities:**

<table>
<thead>
<tr>
<th>Definition</th>
<th>Process Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modeling</td>
<td>Configuration Management</td>
</tr>
<tr>
<td></td>
<td>Process-Driven Framework</td>
</tr>
<tr>
<td></td>
<td>Asset Library</td>
</tr>
<tr>
<td></td>
<td>Metric Support</td>
</tr>
</tbody>
</table>

**Intended Application Area:**

| MIS | Technical |
| Government | Environmental |
| Medical | Utilities |
|          | Real-Time |
|          | Business/Finance |
|          | Manufacturing |
|          | Other: Business Process Reengineering |

**Intended Users of Technology/Tool:**

| Process Engineer | Software Managers |
| Analysts | Software Developers |
|            | Quality Assurance |
|            | End Users |

**Methodology Base:**

| Rule-Based | Structured Analysis |
| Object Oriented | E-R Model |
|              | IDEF |
|              | Data Model Diagrams |

**Configurations:**

| Operating Environment: | Windows 3.1 or better IBM PC/AT and 100% compatible PCs |
| Minimum System Requirements: | 4MB hard drive space, 4 MB memory, 2MB permanent swap file |

**Data Import/Export Information:**

| IDL, dBASE compatible models |
| Export: SQL, .DIF, .TXT, .ACT, .QFD, .LST, etc... |

**Description/Purpose:**

WizdomWorks!™ for Windows Business Process Reengineering Toolset

- ProcessWorks! Create activity models to visualize current processes and understand business requirements.
- DataWorks! Create data models of entities, attributes, and relationships. Export SQL Code into lower CASE tools for data table generation.
## WorkFlow Analyzer by Meta Software Corp

### Product Information:
- **Version Number:** 1.5
- **Release Date:** Oct. 1993
- **Frequency of Updates:**
- **Date of First Release:** Oct. 1993
- **Number Sold/Released:** 30-50+

### Contact Information:
- **In business since:** December 1985
- **Date research began:** 1986
- **Address:** 125 Cambridge Park Drive
  Cambridge, MA 02140
- **Phone Number:** (617)576-6920
- **Point of Contact:** Lou Zand
- **Phone Number:** 617-876-9725
- **Fax Number:** 617-661-2008
- **E-mail Address:** seltzer@metasofterm.com
- **Electronic Bulletin Board:**
- **Customer Support:**

### Pricing:
- **Single User Price:** $34,995
- **Site License:** Call for info
- **Multi-Copy Price:** Call for info
- **Upgrade Costs:** Inc. in maintenance
- **GSA Price:** quoted upon request
- **maintenance price:** $5000/yr (1st yr incl)

### Process Technology Areas/Capabilities:

<table>
<thead>
<tr>
<th>Definition</th>
<th>Process Examples</th>
<th>Workflow</th>
<th>Modeling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Process Redesign</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Intended Application Area:

<table>
<thead>
<tr>
<th>Business Process Redesign</th>
<th>Workflow</th>
</tr>
</thead>
</table>

### Intended Users of Technology/Tool:

<table>
<thead>
<tr>
<th>Software Developers</th>
<th>Software Managers</th>
<th>Process Engineers</th>
</tr>
</thead>
</table>

### Methodology Base:

- **IDEFO Process Modeling**
- **Colored Petri Nets (transparent to user)**

### Configurations:

<table>
<thead>
<tr>
<th>Operating Environment:</th>
<th>Mac, X-Windows (Sun Solaris, HPUX)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum System Requirements:</td>
<td>varies depending on platform</td>
</tr>
</tbody>
</table>

### Data Import/Export Information:

- **ASCII, Spreadsheet**

### Description/Purpose:

The WorkFlow Analyzer is desktop software designed to help organizations re-engineer their business processes to achieve dramatically improved performance in costs, quality, service and speed. The WorkFlow Analyzer toolset allows business users to develop graphical models of existing workflows, which are then automatically translated into dynamic simulation models for the identification of bottlenecks, resources utilization, and process costs. Models can be tested under differing "what if" scenarios to show the results of proposed business changes. WorkFlow Analyzer reporting includes both integrated spreadsheets, and easy-to-interpret graphs.
Appendix C - Process Technology Product Critiques
No new critiques were available at publishing time. If you are interested in getting the old critiques or checking for more recent critiques, please send an email request to process@software.hill.af.mil. If you are interested in providing a critique for a tool that you have used, please use the sample product critique. Send the critique to Software Technology Support Center, Process Team, OO-ALC/TISE - Bldg 100, 7278 Fourth Street, Hill AFB UT 84056-5205.
### Sample Product Critique Sheet

<table>
<thead>
<tr>
<th>Reviewer's Name:</th>
<th>Tool Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Name:</td>
<td>Vendor:</td>
</tr>
<tr>
<td>Position/Title:</td>
<td>Version:</td>
</tr>
<tr>
<td>Main Duties:</td>
<td>Hardware platform:</td>
</tr>
<tr>
<td></td>
<td>Operating system:</td>
</tr>
<tr>
<td>Tool used for software process:</td>
<td>Memory used:</td>
</tr>
<tr>
<td>yes/no</td>
<td>Disk space used:</td>
</tr>
<tr>
<td>Years of software experience:</td>
<td>Enhancements: (accelerator, large monitor, graphics card, etc.)</td>
</tr>
<tr>
<td>Years of experience with the tool:</td>
<td>Overall impression of the tool?</td>
</tr>
<tr>
<td></td>
<td>Quality of vendor support?</td>
</tr>
<tr>
<td></td>
<td>Date of Review:</td>
</tr>
</tbody>
</table>

#### Project Information:

#### Notable Strength(s) of the Tool:

#### Notable Weakness(es) of the Tool:

#### Advice for Potential Users of Method/Tool:

#### Vendor Response:
(This page is intentionally left blank)
Appendix E - IDEF Training Sheets
Many of the STSC's customers were using, or were interested in using, the IDEF technology. We thought it would be extremely important to aid them in finding proper training for the different levels of IDEF usage that exist. All too often tools are bought and never used because proper training was never acquired. We had a goal of assisting organizations learn about process tools, but additionally give them information on where to look for training to get them up and working in the targeted methodology area.

To ensure correctness/timeliness of the following information, be sure and contact the company of interest. In addition, the STSC can be contacted for new/updated IDEF training information by calling their customer service department at 801-777-7703 or DSN 777-7703, FAX to 801-777-8069 or DSN 777-8069, or email to process@software.hill.af.mil.
Appendix E: IDEF Training Sheets

IDEF Training at D. Appleton Company, Inc.

<table>
<thead>
<tr>
<th>Company:</th>
<th>D. Appleton Company, Inc.</th>
<th>Phone:</th>
<th>214-869-1066</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Fax:</td>
<td>214-869-1099</td>
</tr>
<tr>
<td>Address:</td>
<td>222 W. Las Colinas Blvd., Suite 1141</td>
<td>Contact:</td>
<td>Mark Shipman</td>
</tr>
<tr>
<td></td>
<td>Irving, TX 75039</td>
<td></td>
<td>SW Product Manager</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Phil Shinar</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Training Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>310-374-3939 (CA Office)</td>
</tr>
</tbody>
</table>

Number of IDEF Courses Offered: Two (2)

COURSE 1 of 2: Modeling for Managers Seminar  [Intro/Readers Course]

**Abstract:**
D. Appleton recommends this seminar in order to minimize the effects of the "baptism of fire" that middle managers experience upon being assigned information planning and implementation projects. It will give an understanding of the rationale behind using process and data models in the design and implementation of information systems as well as a working knowledge of the tools and methods necessary for effective modeling. The student will be able to read high-level IDEF models at the end of the course. This seminar is also appropriate for business practitioners who will review and validate the models.

**What you will learn:**
- How to read high-level IDEF models
- Working knowledge of the IDEF tools and methods.

**# Days:** One (1)

**# Students:** maximum of 15 students

**Cost (minus expenses):** $295 per student
$3000 as an on-site course

**Course Location:** Scheduled at various sites in U.S. Courses also available on site.

COURSE 2 of 2: Process & Data Modeling Workshop Using IDEF Techniques  [Authors Course]

**Abstract:**
This workshop demystifies the modeling process. The workshop, driven by case studies that use IDEF Modeling Techniques, enables you to design and implement more efficient and effective automated services for your organization. This workshop provides a non-threatening environment where end-users and data processing professionals together build and critique process and data models, stressing the discovery and documentation of business rules implicit in the organization. Through a series of lectures, readings, exercises, and team case studies, the student will gain a working knowledge of process modeling (IDEFO) and data modeling (IDEF1X).

**What you will learn:**
- How to build + critique process + data models
- Working knowledge of IDEFO and IDEF1X

**# Days:** Four (4)

**# Students:** maximum of 15 students

**Cost (minus expenses):** $995 per student as public course
$10,500 as on-site course

**Course Location:** Scheduled at various sites in U.S. Courses also available on site.

**NOTES:**
**Tools/Platforms Used:**
D. Appleton tries to keep their courses tool independent (they are sensitive to getting caught up in computer/tool logistics rather than concentrating on the course), but when tools come into play, they use their IDEF Leverage for IDEF0 and IDEF1x, and their ModelPro tool for IDEF1x work. Computers must be supplied by client firm.

**Materials Used/Kept by Students:**
Book following along with the modules studied in the class.

**IDEF1/IDEF1X Training Offered?:**
IDEF1X training is incorporated into the 4 day course, but IDEF1 is not addressed by D. Appleton.

**Many Exercises/Hands On?:**
Yes. The course involves a series of exercises and team case studies.

**Can Course be Tailored to SW Process Modeling?:**
While D. Appleton has a lot of experience in a wide range of modeling areas, their target market is primarily data modeling applications.

**Misc.:**
- D. Appleton also offers several other workshops & seminars such as Advanced Data Modeling, Enterprise Integration, Process and Data Modeling Techniques, Process Improvement Methodology, and many more.
- Call 800-322-6614 for more information on D. Appleton IDEF training options.
# Appendix E: IDEF Training Sheets

## IDEF Training at Eclectic Solutions

<table>
<thead>
<tr>
<th>Company: Eclectic Solutions</th>
<th>Phone: 619-454-5781</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fax: 619-459-3025</td>
</tr>
<tr>
<td>Address:</td>
<td>Contact: Pat Duran or Al Irvine</td>
</tr>
<tr>
<td>5580 La Jolla Boulevard</td>
<td></td>
</tr>
<tr>
<td>Suite 130</td>
<td></td>
</tr>
<tr>
<td>La Jolla, CA 92037-7692</td>
<td></td>
</tr>
<tr>
<td>Number of IDEF Courses Offered: Three (3)</td>
<td></td>
</tr>
</tbody>
</table>

### COURSE 1 of 3: IDEF0 Overview [Intro. Course]

**Abstract:**
This course is a management overview

**What you will learn:**
- General IDEF0 description
- IDEF0 Applicability
- IDEF0 Resource requirements
- Comparison to other approaches

**# Days:** one (1)  
**# Students:** No limit  
**Cost (minus expenses):** $2500  
**Course Location:** Usually customer site

### COURSE 2 of 3: 3-Day Intensive IDEF0 Authoring Course [Author's Course]

**Abstract:**
Full IDEF0 Author's course

**What you will learn:**
- Interviewing
- Model Authoring
- Commenting + Responding
- Project Control
- Use of Automated IDEF0 Modeling Environment
- Two Case Studies

**# Days:** three (3)  
**# Students:** Maximum of eight (8) students  
**Cost (minus expenses):** 1-4 students $5000; 5-8 students $7000  
**Course Location:** Usually customer site

### COURSE 3 of 3: 5-Day IDEF0 Authoring Course [Author's Course]
Abstract: Full IDEF0 Author’s course

What you will learn:
  • Interviewing
  • Model Authoring
  • Commenting + Responding
  • Project Control
  • Use of Automated IDEF0 Modeling Environment
  • Two Case Studies

# Days: five (5)
# Students: Maximum of twenty (20) students
Cost (minus expenses): 1-12 students $10,000; 13-20 students $15,000
Course Location: Usually customer site

NOTES:

Tools/Platforms Used:
Although it is not required, Eclectic Solutions recommends that their IDEF0 modeling product, Authormate™, be used in both the 3-Day and the 5-Day courses. Since Eclectic Solutions are not as familiar with other tools, they don’t feel as comfortable with knowing the impact it will have on the class, how robust it is, etc.

Materials Used/Kept by Students:
Students use and keep a book of slides as well as a text on SADT, both provided by the instructor.

IDEF1/IDEF1X Training Offered?:
No... Eclectic Solutions concentrates on IDEF0 training/products only.

Many Exercises/Hands On?:
Yes... There are hands on exercises in class, as well as evening assignments.

Can Course be Tailored to SW Process Modeling?:
Yes. The second of the two case studies examined in the course actually looks at a SW process model.

Misc.:
  • The client provides the computers. Eclectic will provide their software for use in the course.
  • Other courses offered by Eclectic: Structured Analysis, Structured Design, and Information Modeling
# IDEF Training at Knowledge Based Systems, Inc.

<table>
<thead>
<tr>
<th>Company: Knowledge Based Systems, Inc.</th>
<th>Phone: 409-696-7979</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>Fax: 409-696-7277</td>
</tr>
<tr>
<td>2746 Longmire</td>
<td>BBS: 409-696-7055</td>
</tr>
<tr>
<td>College Station, TX</td>
<td></td>
</tr>
<tr>
<td>77845-5424</td>
<td></td>
</tr>
<tr>
<td>Contact:</td>
<td></td>
</tr>
<tr>
<td>David N. Rice: Project Manager - IDEF Tools</td>
<td></td>
</tr>
<tr>
<td>Mike Graul: Training Staff</td>
<td></td>
</tr>
<tr>
<td>Number of IDEF Courses Offered: Five (5)</td>
<td></td>
</tr>
</tbody>
</table>

## COURSE 1 of 5: Complete IDEF0 Course [Author's Course]

**Abstract:**
KBSI provides you with the competence needed to effectively apply IDEF0 modeling methodologies.

**What you will learn:**
- A detailed explanation of the IDEF0 methodology/framework
- Usage through extensive practical exercises involving hands-on experience IDEF0
- An introduction to computer-aided modeling through the use of their IDEF0 tool, A10.

**# Days:** flexible

**# Students:** Prices quoted for ten students. For each additional student, add $200.

**Cost (minus expenses):** $5500

**Course Location:** Customers site

## COURSE 2 of 5: Complete A10 Course [KBSI's Tool Course]

**Abstract:**
KBSI has acquired extensive knowledge of the modeling process through the development of their automated IDEF tools. These tools eliminate the tedious aspects of model development and allow the modeler to concentrate on arranging efficiently structured systems. By incorporating these automated tools into the training course, the student can concentrate on the methodology, due to the elimination of laborious hand drawing of models.

**What you will learn:**
- Using KBSI's A10 tool to develop IDEF0 models.

**# Days:** flexible

**# Students:** Prices quoted for ten students. For each additional student, add $200.

**Cost (minus expenses):** $5500

**Course Location:** Customers site

## COURSE 3 of 5: Complete IDEF0 and A10 Course [Authoring Course]

**Abstract:**
KBSI integrates their A10 tool into their IDEF0 author's course for this comprehensive authoring course.

**What you will learn:**
- A detailed explanation of the IDEF0 methodology/framework
- Usage through extensive practical exercises involving hands-on experience IDEF0
- An in depth seminar in computer-aided modeling through the use of KBSI's IDEF0 tool, A10.

**# Days:** flexible

**# Students:** Prices quoted for ten students. For each additional student, add $200.

**Cost (minus expenses):** $5900

**Course Location:** Customers site
### COURSE 4 of 5: Complete IDEF1 Course  [Authoring Course]

- **# Days:** flexible
- **# Students:** Prices quoted for ten students. For each additional student, add $200.
- **Cost (minus expenses):** $5900
- **Course Location:** Customers site

### COURSE 5 of 5: Complete IDEFIX Course  [Authoring Course]

- **# Days:** flexible
- **# Students:** Prices quoted for ten students. For each additional student, add $200.
- **Cost (minus expenses):** $5900
- **Course Location:** Customers site

### NOTES:

**Tools/Platforms Used:**
KBSI offers generic IDEF training as well as courses specific to their IDEF tools and also combinations of the two.

**Materials Used/Kept by Students:**
They provide all the materials needed for the course. Students can keep most of the materials used.

**IDEF1/IDEFIX Training Offered?**
Yes....Both courses are priced at $5900 (see above)

**Many Exercises/Hands On?**
They advertise "Extensive practical exercises" in the client's chosen application area.

**Can Course be Tailored to SW Process Modeling?**
KBSI is very flexible and has a large library of models already built. While KBSI deals with mostly manufacturing clients, SW Process modeling can be handled by them too.

**Misc.:**
- KBSI also has courses in IDEF3, IDEF4, IDEF5 (each are $7000), and Systems Development Frameworks.
- If KBSI's standard courses aren't exactly what you need they say "We send in our experts early to gain an understanding of your company and of your special problem types. From this information, we develop a training course that takes into account your company's operational procedures and addresses the problems to be solved."
- They seem very willing to work with the customer to tailor their courses to specific needs.
# IDEF Training at Lipka Software Engineering, Inc.

<table>
<thead>
<tr>
<th>Company:</th>
<th>Lipka Software Engineering, Inc.</th>
<th>Phone: 617-965-0911</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>29 Chatham Road, Newton, MA 02161</td>
<td>Fax: 617-965-0911 (same number)</td>
</tr>
<tr>
<td>Contact:</td>
<td>Stephen E. Lipka, Ph.D.</td>
<td>President</td>
</tr>
<tr>
<td>Number of IDEF Courses Offered:</td>
<td>Four (4)</td>
<td></td>
</tr>
</tbody>
</table>

## COURSE 1 of 4 IDEF0 Readers Course (Course #: GEN-1) [Reader's Course]

**Abstract:**
This course, lasting approximately one hour, introduces the viewer to IDEF0 activity models and enables them to read diagrams and models for content. It is intended for those who wish to understand model content, follow modeling progress, or participate as interested parties in projects using IDEF0 activity models. The course is intended for general audiences.

**What you will learn:**
- An introduction to IDEF0 activity models.
- To read IDEF0 models for content

**# Days:** One (1) Hour  
**# Students:** flexible  
**Cost (minus expenses):** negotiated  
**Course Location:** Customers Site.

## COURSE 2 of 4 IDEF0 Commenters Course (Course #: GEN-2) [Commenter's Course]

**Abstract:**
This course, lasting approximately one hour, builds on the Readers' Course. It shows the viewer how to read the models critically and comment in a structured way to help the model's authors improve it. The course is intended for general audiences.

**What you will learn:**
- An introduction to IDEF0 activity models.
- To read IDEF0 models for content
- To read IDEF0 models with a critical eye, and comment intelligently

**# Days:** One (1) Hour  
**# Students:** flexible  
**Cost (minus expenses):** negotiated  
**Course Location:** Customers Site.

## COURSE 3 of 4 IDEF0 Modeling Course (Course #: MOD-1) [Author's Course]
Abstract:
This five day course covers principles of activity modeling using IDEF0, particularly for use in enterprise modeling and system definition. The course covers model objectives, syntax, semantics, model quality, dynamics, mechanisms, review practices, knowledge acquisition, and presentation of models. The fifth day includes time for a practical exercise related to the students' business. The course is highly technical and is oriented toward analysts and designers.

What you will learn:
- How to build IDEF0 models
- How to gather and extract information needed for your models
- Review practices
- How to apply what you've learned to a real life situation within your organization

# Days: Five (5)
# Students: maximum of 10 students (will discuss having more students)
Cost (minus expenses): $10,000
Course Location: Customers Site.

COURSE 4 of 4 Advanced IDEF0 Modeling Course (Course #: MOD-2) [Advanced Author's Course]

Abstract:
This four day course is oriented toward analysts and designers who have attended an introductory course with one to two days of IDEF0. As with the five day course, this workshop covers principles of activity modeling using IDEF0, particularly for use in enterprise modeling and system definition. The emphasis, however, is on the advanced concepts, presented through a larger number of exercises. The course covers model objectives (particularly for As-Is and To-Be business process models), model quality, dynamics, mechanisms (including their use for showing organization and information systems), multiple model structures, review practices, knowledge acquisition, presentation of models, and use of the models for gathering costing and economic information. The fourth day includes time for a practical exercise related to the students' problem. Participants are expected to have knowledge of IDEF0 diagram and model syntax and semantics and are expected to have developed IDEF0 models. Refresher material will be presented as needed.

What you will learn:
- How to build IDEF0 models
- How to gather and extract information needed for your models
- Review practices
- How to apply what you've learned to a real life situation within your organization
- More in depth work on examples

# Days: Four (4)
# Students: maximum of 10 students (will discuss having more students)
Cost (minus expenses): $8,000
Course Location: Customers Site.

NOTES:
### Tools/Platforms Used:
Flexible. If working with a modeling tool is desired (this is not a requirement), Eclectic Solution's Authormate and Meta's Design/IDEF tools have been used in Mr. Lipka's courses.

### Materials Used/Kept by Students:
A IDEF course book (containing all slides used in course), a set of hand-out exercises (copywritten), and workforms (public domain) to be used.

### IDEF1/IDEFIX Training Offered?:
Mr. Lipka offers a course in information modeling which covers IDEF1 and IDEF1X.

### Many Exercises/Hands On?:
There are exercises given, which will be reviewed that night by the instructor, to allow feedback the next day. Also, time is allotted in the last day to work specifically on the customer's chosen application.

### Can Course be Tailored to SW Process Modeling?:
Yes. Mr. Lipka has experience in SW process modeling using IDEF and will be happy to include this information as well as show SW process examples. However, preliminary IDEF techniques will be taught first. This prevents people from getting bogged down in discussions about the content of the models as opposed to the techniques used to build them.

### Misc.:
- References can be provided.
- Customer supplies the computer and software resources for the course when tools are used.
- Often hired as a consultant for SofTech
- Was team leader for SofTech on the first IDEF CASE tool.
- Developer of the public domain courses on reading and commenting, available through STSC.
IDEF Training at Meta Software Corporation

<table>
<thead>
<tr>
<th>Company: Meta Software Corporation</th>
<th>Phone: 617-576-6920</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>800-227-4106</td>
</tr>
<tr>
<td></td>
<td>Fax: 617-576-0519</td>
</tr>
<tr>
<td>Address: 125 Cambridge Park Drive</td>
<td>Contact: Bob Seltzer / Lou Zand</td>
</tr>
<tr>
<td>Cambridge, MA 02140</td>
<td></td>
</tr>
<tr>
<td>Number of IDEF Courses Offered: Two (2)</td>
<td></td>
</tr>
</tbody>
</table>

COURSE 1 of 2: Business Process Modeling [Intro. Course]

Abstract:
The purpose of this course is to produce capable modelers who can use Design/IDEF to create effective business process models.

What you will learn:
- How to use the basic IDEF constructs.
- How to use the Design/IDEF tool
- How to set-up IDEF models for activity-based costing (ABC)
- How to set-up IDEF models for simulation.
- How to connect your IDEF models to other tools.

# Days: One (1)
Cost (minus expenses): $500. 15% discount for two or more people from the same company.
Course Location: Course at Meta Software. Custom courses at the customer site are available.

COURSE 2 of 2: Business Process Analysis [Readers/Users Course]

Abstract:
The purpose of this course is to provide business modelers with a foundation to analyze specific business problems, translate them into effective behavioral models, and deliver measurable results.

What you will learn:
- How to translate IDEF models into CPN simulation models.
- How to use the Design/CPN simulation tool.
- How to perform cost/benefits analysis
- How to produce easy-to-understand graphic presentations.

# Days: Two (2)
Cost (minus expenses): $1000 15% discount for two or more people from the same company.
Course Location: Course at Meta Software. Custom courses at the customer site are available.

NOTES:
Tools/Platforms Used:
Meta's tools, Design/IDEF and Design/CPN, are used in their courses.

IDEF1/IDEFIX Training Offered?:
No. IDEF1 + IDEF1X are not covered.

Many Exercises/Hands On?:
Yes. Using Meta Software's Design/IDEF tool is a major emphasis of the class.

Can Course be Tailored to SW Process Modeling?:
No. Meta Software works primarily in the business process re-design arena.

Misc.:
• The two courses together cost $1250.
• Meta Software offers consulting services, but they are not really in the IDEF training business, even though they offer some courses at their site from time to time. They often recommend other training options to their customers.
# IDEF Training at New England Business Consultants

<table>
<thead>
<tr>
<th>Company: New Eng. Business Consultants</th>
<th>Phone: 508-794-0375</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address: 61 Elm Street, Suite 100</td>
<td>Fax: 508-685-3719</td>
</tr>
<tr>
<td>Methuen, MA 01844</td>
<td>Contact: Daniel E. Thornhill</td>
</tr>
<tr>
<td>Number of IDEF Courses Offered: Twelve (12)</td>
<td></td>
</tr>
</tbody>
</table>

## COURSE 1 of 12: IDEF0 Executive Overview # NIE-10G [Overview Course]

**Abstract:**
In this high-level course, one day is spent familiarizing students with IDEF0 concepts as well as why IDEF0 is important. Not a model developer's course.

**What you will learn:**
- Why IDEF0 is important
- How IDEF0 can be best used
- High-level view of IDEF0 concepts

**# Days:** One (1)

**Cost (minus expenses):** $2000

**Course Location:** At customer provided facility.

## COURSE 2 of 12: IDEF0 Management Course #NIM-01D [Overview Course]

**Cost (minus expenses):** $2500

**Course Location:** At customer provided facility.

## COURSE 3 of 12: IDEF0 Management Course & Workshop #NIS-11E [Overview & Workshop Course]

**What you will learn:**
- Basic management overview course with a workshop in which the customer's specific area of interest is examined.

**Cost (minus expenses):** $5000

**Course Location:** At customer provided facility.

## COURSE 4 of 12: IDEF0 Reader Course #NIR-02J [Reader's Course]

**What you will learn:**
- Full IDEF0 Model Syntax
- How to correctly read and understand IDEF0 models

**Cost (minus expenses):** $500

**Course Location:** At customer provided facility.

## COURSE 5 of 12: IDEF0 Reviewer Course #NIC-03B [Reader/Reviewer Course]
### Appendix E: IDEF Training Sheets

#### What you will learn:
- How to correctly read and understand IDEF0 models
- Make corrections and comments on IDEF0 models

**Cost (minus expenses):** $1000  
**Course Location:** At customer provided facility.

### COURSE 6 of 12: IDEF0 Author Course  
#NIA-04M  [Author's Course]

**What you will learn:**
- Management techniques for projects utilizing IDEF0.

**# Students:** Max. of 20 students  
**Cost (minus expenses):** $8,000 up to 10 students, $750 for each additional, up to 20 students  
**Course Location:** At customer provided facility.

### COURSE 7 of 2: IDEF0 Author Course and Modeling Workshop  
#NII-05P [Author's Course & Workshop]

**Abstract:**
Lectures and an integrated example present IDEF0 fundamentals. A "standard" workshop provides group practice after presentation of each concept. A "tailored" workshop provides group and individual application of the concepts to develop an IDEF0 model of some aspect of the customer's project or company. Instructors give careful attention to individual work. Outside reading and homework assignments provide reinforcement and practice.

**What you will learn:**
- IDEF0 background + syntax  
- Modeling procedures and information gathering  
- Developing complete models, text, glossaries, and figures  
- Model review, validation, and revision

**# Days:** Five (5)  
**# Students:** Max. of 20 students  
**Cost (minus expenses):** $12,000 up to 10 students. $1,000 for each additional, up to 20 students.  
**Course Location:** At customer provided facility

### COURSE 8 of 12: IDEF0 Project Workshop  
#NIP-06C  [Project Workshop Course]

**Cost (minus expenses):** $5000  
**Course Location:** At customer provided facility.

### COURSE 9 of 12: Advanced IDEF0 Author Course  
#NIF-07A  [Author's Course]

**What you will learn:**
- Advanced techniques and concepts of IDEF0 modeling

**Cost (minus expenses):** $6000  
**Course Location:** At customer provided facility.

### COURSE 10 of 12: Advanced IDEF0 Author Course and Project Workshop  
#NIG-08L  [Author's Course and Project Workshop]
What you will learn:
- Advanced techniques and concepts of IDEF modeling
- Your specific case is examined and discussed.

Cost (minus expenses): $10,000
Course Location: At customer provided facility.

COURSE 11 of 12: IDEF Project Librarian Course #NIL-09S [Librarian Course]

What you will learn:
- Issues important to those who will be keeping track of models produced/shared will be discussed

Cost (minus expenses): $500
Course Location: At customer provided facility.

COURSE 12 of 12: IDEFIX Data Modeling Course #NID-12A [Author's Course]

What you will learn:
- Syntax, concepts, and issues of IDEFIX modeling

Cost (minus expenses): $800
Course Location: At customer provided facility.

NOTES:

Tools/Platforms Used:
Do not concentrate on tools as much as the methodology so that students will not get caught in issues of tool operation. However, NEBC will incorporate customer tools into courses if that is desired.

Materials Used/Kept by Students:
- Course workbook with copies of all slides
- SADT textbook by Marca and McGowan
- Custom IDEF mouse pad
- IDEF template, diagram pad, forms, colored pens, and other supplies
- Sample models and other handouts

IDEF1/IDEFIX Training Offered?:
One course on IDEFIX modeling is offered. However, most of their courses are designed around IDEF0.

Many Exercises/Hands On?:
Yes. Exercises and Homework are an integral part of the class.

Can Course be Tailored to SW Process Modeling?:
Their courses are built around business process modeling, rather than SW Process Modeling

MISC:
- Dan was involved in the development of training materials for SofTech and is often hired as a consultant by SofTech.
- Willing to use customer-focused case examples in class for discussion/review.
# Appendix E: IDEF Training Sheets

## IDEF Training at Productivity Solutions

<table>
<thead>
<tr>
<th>Company:</th>
<th>Productivity Solutions (PS)</th>
<th>Phone:</th>
<th>401-847-8875</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>30 East Street</td>
<td>Fax:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Newport, RI 02840</td>
<td>Contact:</td>
<td>John E. Stockenberg, Ph. D.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chief Technical Officer</td>
<td></td>
</tr>
<tr>
<td>Number of Courses Offered:</td>
<td>One (1)</td>
<td></td>
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</tbody>
</table>

### COURSE 1 of 1: IDEF0 Activity Modeling Techniques  [Author's Course]

**Abstract:**
This course will include several group and individual exercises designed to demonstrate the applicability of IDEF0 techniques to command and control and other embedded real-time system analysis tasks.

**What you will learn:**
- Intro. to Modeling and IDEF diagram syntax
- Model decomposition and hierarchy
- Creating a Model: context, viewpoint, purpose, interviewing tips, conventions for readability
- Building a Data Dictionary
- How to Review/Comment on a model
- The Author / Reader Cycle
- Using Models for Project Plans

**# Days:** Three (3)
**# Students:** Up to 20 students
**Cost (minus expenses):** $1500
**Course Location:** At customer's site

### NOTES:

**Tools/Platforms Used:**
This course has been taught with students using paper and pencil. John Stockenberg is familiar with Meta Software’s Design/IDEF and could include some tool use in the course, but doesn’t have past experience doing this.

**Materials Used/Kept by Students:**
Students use and keep a 150-200 page spiral-bound book of viewgraphs.

**IDEF1X Training Offered?** No.

**Many Exercises/Hands On?** Paper/pencil examples are worked through, but this course hasn’t been taught using computers and software tools.

**Can Course be Tailored to SW Process Modeling?** No. He has worked with people involved in embedded systems and has examples of how to use IDEF as a planning tool, but doesn’t have experience teaching SW process modeling.

**Misc.**
- Other courses are available to supplement the IDEF0 course. Available topics include behavior modeling, SCRA/TE/NRL/Parnas design and specification techniques, and Petri net modeling.
- As stated above, John has not taught this course using actual computers/IDEF tools. The customer would have to provide the resources (computers/software) for this to take place.
### IDEF Training at Wizdom Systems

<table>
<thead>
<tr>
<th>Company: Wizdom Systems, Inc.</th>
<th>Phone: 708-357-3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address: 1260 Iroquois Avenue</td>
<td>Fax: 708-357-3059</td>
</tr>
<tr>
<td>Naperville, IL 60563</td>
<td>Contact:</td>
</tr>
<tr>
<td></td>
<td>Kristy Hanna</td>
</tr>
<tr>
<td></td>
<td>or Tom Newman</td>
</tr>
<tr>
<td>Number of IDEF Courses Offered:</td>
<td>Twelve (12)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COURSE 1 of 4: IDEF0 with IDEFine-0 [Reader's/User's Course]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What you will learn:</strong></td>
</tr>
<tr>
<td>• The IDEF0 methodology using Wizdom Systems' tools.</td>
</tr>
<tr>
<td><strong># Days:</strong> Four (4)</td>
</tr>
<tr>
<td><strong># Students:</strong> Maximum of 10</td>
</tr>
<tr>
<td><strong>Cost (minus expenses):</strong></td>
</tr>
<tr>
<td>$12,605 w/ one copy of the IDEFine Family tool suite installed/delivered.</td>
</tr>
<tr>
<td>$25,105 w/ four copies of the IDEFine Family tool suite installed/delivered.</td>
</tr>
<tr>
<td><strong>Course Location:</strong> This course is offered only to on-site client firm only.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COURSE 2 of 4: IDEFine1x with IDEFine-1x [Reader's/User's Course]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What you will learn:</strong></td>
</tr>
<tr>
<td>• The IDEFine1x methodology using Wizdom Systems' tools.</td>
</tr>
<tr>
<td><strong># Days:</strong> Four (4)</td>
</tr>
<tr>
<td><strong># Students:</strong> Maximum of 10</td>
</tr>
<tr>
<td><strong>Cost (minus expenses):</strong></td>
</tr>
<tr>
<td>$11,105 w/ one copy of the IDEFine Family tool suite installed/delivered.</td>
</tr>
<tr>
<td>$17,055 w/ four copies of the IDEFine Family tool suite installed/delivered.</td>
</tr>
<tr>
<td><strong>Course Location:</strong> This course is offered only to on-site client firm only.</td>
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<table>
<thead>
<tr>
<th>COURSE 3 of 4: Advanced IDEF0 &amp; IDEFine1x [Author's Course]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What you will learn:</strong></td>
</tr>
<tr>
<td>• Advanced concepts of both the IDEF0 and IDEFine1x methodologies.</td>
</tr>
<tr>
<td><strong># Days:</strong> Four (4)</td>
</tr>
<tr>
<td><strong># Students:</strong> Maximum of 10</td>
</tr>
<tr>
<td><strong>Cost (minus expenses):</strong></td>
</tr>
<tr>
<td>$800/Person if taken when offered to the public by Wizdom.</td>
</tr>
<tr>
<td>$8450 to on-site client firm.</td>
</tr>
<tr>
<td><strong>Course Location:</strong> Held publicly at various sites around the world, as well as on-site at a client firm.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COURSE 4 of 4: IDEF0 &amp; IDEFine1x with IDEFine-0 &amp; 1x [Author's Course]</th>
</tr>
</thead>
</table>
### What you will learn:
- Advanced concepts of both the IDEF0 and IDEF1x methodologies using Wizdom System's tools.

<table>
<thead>
<tr>
<th># Days</th>
<th>Five (5)</th>
</tr>
</thead>
<tbody>
<tr>
<td># Students</td>
<td>Maximum of 10</td>
</tr>
<tr>
<td>Cost (minus expenses)</td>
<td>$17,360 w/ one copy of the IDEFine Family tool suite installed/delivered. $37,360 w/ four copies of the IDEFine Family tool suite installed/delivered.</td>
</tr>
<tr>
<td>Course Location</td>
<td>This course is offered only to on-site client firm only.</td>
</tr>
</tbody>
</table>

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**THE FOLLOWING EIGHT LISTINGS ARE GROUPED UNDER WIZDOM SYSTEM'S IDEFSource Series Courses**

<table>
<thead>
<tr>
<th>IDEFSource Course 1 of 8</th>
<th>Introduction to IDEF [Intro Course]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Abstract:</strong></td>
<td>This course is designed for the potential user of IDEF methodologies. Computers are not used in this introductory course.</td>
</tr>
</tbody>
</table>
| **What you will learn:** | - Systems engineering methodologies in perspective  
  - SADT and IDEF principles  
  - IDEF applications in manufacturing, software engineering, and business environments  
  - Students will construct IDEF0 and IDEF1 diagrams |
| # Days | Two (2) |
| # Students | Maximum of 15 |
| Cost (minus expenses) | $550 per person (includes instruction, materials, luncheon) $4550 as an on-site course. |
| Course Location | Held publicly at various sites around the world, as well as on-site at a client firm. |

<table>
<thead>
<tr>
<th>IDEFSource Course 2 of 8</th>
<th>IDEF modeling of manuf. systems. [Reader's/User's Course]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Abstract:</strong></td>
<td>This course shows how to use IDEF0, IDEF1X, and IDEFcost to plan and implement improvements in manufacturing systems.</td>
</tr>
</tbody>
</table>
| **What you will learn:** | - Project definition and management  
  - Data collection  
  - Construction of IDEF0 and IDEF1X models  
  - Migration from IDEF models to process flow diagrams  
  - Specification of TO-BE systems architecture with IDEF. |
| # Days | Two (2) |
| # Students | Maximum of 15. |
| Cost (minus expenses) | $595 per person (includes instruction, materials, luncheon) $4550 as an on-site course. |
| Course Location | Held publicly at various sites around the world, as well as on-site at a client firm. |

<table>
<thead>
<tr>
<th>IDEFSource Course 3 of 8</th>
<th>Enterprise modeling with IDEF [Reader's/User's Course]</th>
</tr>
</thead>
</table>
Abstract:
The course shows how IDEF0, IDEF1X, and IDEFcost analysis are used to improve enterprise operations by modeling organizations, their functions, information flows, and interfaces. This is a course for people who want to re-design their organization's business processes, plan information integration, and control change in a turbulent environment.

What you will learn:
- How IDEF modeling fits in with CIM, CASE, simulation, and other information management strategies.
- How to review basic constructs of IDEF0 and IDEF1X
- Using a methodology for using IDEF as the basis for Activity-Based Costing.
- To describe IDEFast and IDEFlow - Wizdom's methodology for IDEF based timeline and process flow analysis.
- How to present a case study of DOD business system integration planning using IDEF.

# Days: Two (2)
# Students: maximum of 15.
Cost (minus expenses): $595 per person (includes instruction, materials, luncheon)
                      $4550 as an on-site course.
Cost Location: Held publicly at various sites around the world, as well as on-site at a client firm.

IDEFSourse Course 4 of 8: Software Engineering with IDEF [Author's Course]

Abstract:
The use of IDEF in CASE tools offers the opportunity for standardization in front-end software engineering. IDEF is used as a common frame of reference for a systems and database design project.

What you will learn:
- Basics of IDEF0 and IDEF1X
- Fundamentals of Business Process Improvement
- Fundamentals of Data Asset Management
- Introduction to Corporate Information Management
- Creating + refining IDEF1X models,
- Developing TO-BE models using IDEF
- Collecting Data and Managing IDEF Projects
- SW Engineering Basics (system life cycle, issues in analysis, design, prototyping, coding, testing, installation and maintenance. Standards for SW engineering documentation. Role of CASE tools.
- Using IDEF in Software Engineering

# Days: Two (2)
# Students: maximum of 15.
Cost (minus expenses): $595 per person (includes instruction, materials, luncheon)
                      $4550 as an on-site course.
Course Location: Held publicly at various sites around the world, as well as on-site at a client firm.

IDEFSourse Course 5 of 8 TQM with IDEF [Reader's/User's Course]
### Appendix E: IDEF Training Sheets

**Abstract:**
Total Quality management is increasingly a requirement in major DOD and civilian contracts. This course uses IDEF methods to describe the basic re-orientation required for TQM; and to describe the implementation of TQM in operation, marketing, purchasing, human resources, and corporate culture.

**# Days:** Two (2)
**# Students:** maximum of 15.
**Cost (minus expenses):** $595 per person (includes instruction, materials, luncheon)
$4550 as an on-site course.
**Course Location:** Held publicly at various sites around the world, as well as on-site at a client firm.

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**IDEFSource Course 6 of 8: Business Process Re-Design w/ IDEF [Reader's/User's Course]**

**Abstract:**
IDEF is used to plan business improvements prior to implementing new policies, procedures, and computer systems. In DOD's Corporate Information Management program, IDEF modeling is the first step in developing new systems. Planners model the way business is done today and use the model to plan improvement, often through a non-computer solution to information problems such as work simplification.

**What you will learn:**
- How IDEF modeling fits in with CIM, CASE, simulation, and other information management strategies.
- How to review basic constructs of IDEF0 and IDEF1X
- A methodology for using IDEF as the basis for Activity-Based Costing.
- How to present a case study of DOD business system integration planning, using IDEF.

**# Days:** Two (2)
**# Students:** maximum of 15.
**Cost (minus expenses):** $595 per person (includes instruction, materials, luncheon)
$4550 as an on-site course.
**Course Location:** Held publicly at various sites around the world, as well as on-site at a client firm.

---

**IDEFSource Course 7 of 8: Process Flow Modeling w/ IDEF [Reader's/User's Course]**

**What you will learn:**
- Concepts for modeling process flow using the IDEF methodology.

**# Days:** Two (2)
**# Students:** maximum of 15.
**Cost (minus expenses):** $595 per person (includes instruction, materials, luncheon)
$4550 as an on-site course.
**Course Location:** Held publicly at various sites around the world, as well as on-site at a client firm.

---

**IDEFSource Course 8 of 8 Activity Based Costing w/ IDEF [Reader's/User's Course]**

**What you will learn:**
- Concepts of activity based costing using the IDEF methodology.

**# Days:** Two (2)
**# Students:** maximum of 15.
**Cost (minus expenses):** $595 per person (includes instruction, materials, luncheon)
$4550 as an on-site course.
**Course Location:** Held publicly at various sites around the world, as well as on-site at a client firm.
### Software Technology Support Center

#### NOTES:

**Tools/Platforms Used:**
These courses are taught using Wizdom System's own IDEFine Family™ tool suite.

**Materials Used/Kept by Students:**
A book of slides is used and kept by the students.

**IDEF1/IDEFIX Training Offered?:**
Many of the courses include IDEFIX training. IDEF1 is not addressed at all.

**Many Exercises/Hands On?**
Yes. Each class has a lot of hands-on exercises to be worked through.

**Can Course be Tailored to SW Process Modeling?:**
The software engineering with IDEF course has a lot of useful information, though it doesn't seem specifically aimed at software process modeling.

**Misc:**
- Wizdom claims that "virtually any program can be structured to suit the needs of the particular client firm."
- The customer must provide all computers to be used, for all classes, except the Introduction to IDEF course, in which no computers are used.