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International Software AG Users' Group Newsletter

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President's Message

Brett Aubrey

The past two years as SAGGROU Vice-President and President has been a rewarding experience for me. It is a sincere pleasure working with Executive Committee members who displayed such a high degree of professionalism. Activities were performed with drive and enthusiasm in a manner with which the Users' Group has greatly benefited. While I thank the entire Executive Committee, I feel a number of individuals are worthy of extra mention for their efforts.

Mr. Bob Becker of the Foremost Insurance Company has become somewhat of an institution within SAGGROU. His excellent and well attended Annual Conference presentations are probably the most visible contribution, but his performance in numerous other activities as Chairperson of the Technical Support Evaluation Committee is unquestionably a major asset to the Executive Committee and the Users' Group in general.

SAGGROU Past President, Ms Jennifer CurLee of The Aerospace Corporation, continues to provide superb support to the Users' Group. In response to a resolution at the 1983 Annual Conference, she agreed to chair the Committee to Investigate SAGGROU Administration. Ms CurLee and the Committee, consisting of Mr. Larry Jayne from SAGNA, Mr. Richard Judd of the State of Alaska and Ms Diane Odell from Evans Products have been working on a report which is to be presented at the 1984 General Session in Anaheim. I would also like to thank Ms CurLee for her past activities as President and her assistance in the transition of last years Executive to this years.

Mr. Larry Jayne, Users' Group Liaison of Software AG of North America has been of immense help to me personally, and to SAGGROU in general. His prompt and efficient approach to the many and diverse activities he performs for the Users' Group is most advantageous to us all. Thank you, Larry.

NATURAL Product Representative, Mr. Ralph Jenks of the Coastal Corporation, merits thanks especially in light of an extra level of support he provided for the Change/Enhancement process this year.

Mr. Richard Wolverton of Commerical Union Insurance, SAGGROU Vice President, deserves a special note of thanks for his willingness to assume his position on short notice, and for his efficiency in coordinating detailed agendas for Executive Committee meetings as well as consolidating responses for Consitutional Amendments.

Finally, I would like to thank all other individuals and their organizations who have actively supported SAGGROU activities. Support can be given in many ways—volunteering for Executive Committee, Regional Rep or SIG Chair positions, hosting Regional Group meetings, writing Newsletter articles or just by making it known that you are willing to help out. As I have said before, we can often do with an extra hand. □

Who Is Your Regional Rep?

Larry Jayne
Software AG

Have you ever wondered how to get in contact with your Regional Rep? Or, in fact, who is your Regional Rep? Well, the answer is quite simple. The list of Regional Rep's for all users, worldwide is included in each issue of the SAGGROU Newsletter.

Each Regional Rep is responsible for organizing and chairing regional user meetings, reporting the results of these meetings to the newsletter editor for publication in the next newsletter, and all regional related activities.

The regional boundaries were established some time ago by the SAGGROU Executive Committee at the request of the users in each of those regions. Within each region a user is elected to the position of Regional Rep and serves for one year.

Organizationally, the Regional Rep's report to the Area Representatives who in turn report to and are part of the SAGGROU Executive Committee.

All regions are responsible for establishing their own bylaws. The bylaws establish regional structure and policy.

If you have any questions about any of these functions please call your Regional Rep. She/he will be glad to talk with you and would appreciate any ideas or suggestions you may have about regional activities. □

Users' Conference Technical Agenda

Larry Jayne
Software AG

The 13th International Software AG Users' Conference is upon us. The registrations are pouring in and it looks like the number of attendees will again set a new record.

Users' Group News



This conference, to be held April 29 — May 3, 1984, in Anaheim, is going to be the greatest one ever. The technical agenda is being finalized in preparation for the conference and it includes the following topics:

I. SAGNA PRESENTS

Information Center— How Real is it
SAG & End User Computing
ADABAS & VAX
ADABAS Directions
Communications Directions
SAG and Office Automation
COM-LETE & Data Base
Communications Change/Enhancements
NATURAL Directions
NATURAL & PREDICT
Change/Enhancements
ADABAS Change/Enhancements

II. USER PRESENTATIONS

Keeping NATURAL Secure
Lope Auxillos
Asian Development Bank
Manila, Philippines
IDT Integrated Data and Text Processing System
Martin Lochte-Holtgreven
Krupp Mak Maschinenbau GmbH
Keil, West Germany
Managing VSAM And ISAM Data Sets in a COM-LETE Environment
Roy Richardson
Management Applied Programming, Inc.
Performance Evaluation Report For ADABAS, A New Look for 1984
Robert J. Becker
Foremost Insurance Company
Grand Rapids, Michigan
NATURAL Chart Utility Using NATURAL Graphics And Histogram Data
At Olathe City
Ray Thompson
City of Olathe
Olathe, Kansas
Preparing for PREDICT
Thomas R. Bradbury
Hay Computer Services
Philadelphia, Pennsylvania

ADABAS Transmission Control Facility

Leon Silberstein
Leviton Manufacturing Company
Little Neck, New York
NATURAL Program Control Facility
Michael Friedlander
Leviton Manufacturing Company
Little Neck, New York
Input No Erase: Save Money and Delight Your Users
Jerry L. Austin
Satellite Business Systems
McLean, Virginia
Efficiency and Security Considerations of Using Ad Hoc Query and Reporting
David Koehler, William Borgida
Cornell University
Ithaca, New York
Backout Encounters of the ET Kind

Bill Wagner
The University of Texas At Austin
Austin, Texas
Security Without the DBA
Randy E. Ebeling
The University of Texas At Austin
Austin, Texas
Managing ADABAS/NATURAL In a Decentralized Applications Development Environment
Judith M. Lebowich
U.S. Environmental Protection Agency
Washington, D.C.

III. SAGNA Classes*

ADABAS Physical File Design
ADABAS Restart/Recovery
NATURAL Security
COM-LETE V4.3 Application Enhancements
COM-LETE V4.3 Systems Enhancements

*You DO NOT have to register for these classes: they are part of the Users' Conference and thus DO NOT require a separate registration.

IV. SPECIAL INTEREST GROUP (SIG) WORKSHOPS
ADABAS Performance DOS
Data Administration
Data Dictionary
DBA Tools
Education/Documentation
Large Data Bases
Software Interfaces
ADABAS/VM
Scientific/Engineering
User Profile
ADABOMP
Security Environments
NATURAL Techniques
NATURAL: The End User Environment
NATURAL Micro Mainframe Link
NATURAL Futures
COM-LETE Tools
COM-LETE Performance And Tuning

As a user, one of the great benefits from attending the users conference is the exchange of technical ideas and concepts between you and other users as well as between you and Software AG. During and after each conference, I frequently hear attendees say how much information they received from other users as well as Software AG: this is the essence and purpose of the conference.

If you have never been to an International Software AG Users' Conference I cannot adequately describe the technical benefits you will gain for use back home. If you have been to a prior Users' Conference, you know what I mean.

If you have not yet registered, I suggest you do so immediately. A conference registration form has been included for your convenience. Please complete and mail to the Software AG address on the form and mark it to the attention of the Users' Conference Registrar.

I'll see you in Anaheim! □

Election of SAGGROUP Officers

Larry Jayne
Software AG

The election of SAGGROUP Officers is held each year at the International Users' Conference. This year it will be held at the conference in Anaheim with balloting to be completed by Tuesday, May 1, 1984, at 5:00 p.m. The results of the election will be posted and announced the next day, Wednesday, May 2, 1984.

To facilitate this election, an election packet was sent to each licensed user in the U.S. and groups of packets were sent to each affiliate who will then route them directly to each of their users. Each election packet contains a letter from Roy Richardson, Chairperson of the Nominating Committee, which describes the voting procedures, a list of Candidate Statements regarding their background and qualifications, and a ballot for voting purposes. Each licensed user may vote using the supplied ballot which is then either deposited in the ballot box at the Users' Conference or is mailed directly to Roy Richardson.

Those persons deciding to mail their ballot, must insure it is mailed to Roy Richardson and received by him no later than April 27, 1984, for it to be counted. This is each users chance to participate, therefore I encourage everyone to take this opportunity to vote.

Listed below is the names of the SAGGROUP Candidates, the Office they are seeking, and their individual statements regarding background and qualifications:

Richard Wolverton *Candidate for President*

As a user of Software AG products, I believe that there is a symbiotic relationship between Software AG and SAGGROUP. It may seem obvious but without SAGNA there would be no need for a User Group and without users SAGNA could not exist. Expedited delivery, quality control, enhancements, timely fixes continue to be ongoing user concerns that must be vigorously pursued. I believe that a consistent and orderly management of SAGGROUP is essential to forward these user interests. The president of SAGGROUP must provide an active and open link to SAGNA management, representing all users.

Although Software AG of North America cannot be all things to all companies, it can be, and I believe is, a provider of quality software products and tools that can have a significant impact on our companies data processing. It is our job as a User Group to identify mutual concerns as they arise and to work with SAGNA on resolutions before they become major problems. The president must facilitate and coordinate this process.

It is also fundamental that we as users make the effort to share with one another the things we have learned applying SAGNA products to our application needs. Each installation has something of value it has discovered or written that other installations could benefit from. It should be a source of pride with each company to demonstrate the improvements the past year has brought. The president must take the initiative to encourage everyone to take part in the exchange of information by becoming presenters at the conference and contributing to the DBATOOLS.

The consistent exchange of quality information and a united approach to solving problems are the unifying themes of a successful User Group and the responsibility of a successful president.

Ron Kleibrink

Candidate for Vice President

My wife and I have a 19 year old son and a 17 year old daughter. During 1983, I served as secretary for the Houston DPMA Chapter and in 1984 I am the treasurer. My wife and I also served as youth counselors for our church. I have been employed by Getty Oil Company for the past 15 years as a technical systems programmer and a systems engineer for the past five years. Getty is a strong supporter of Software AG products using ADABAS, NATURAL and COM-LETE.

When asked if I would run for an office of the SAGGROUP Executive Committee, my first thought was no. There I am volunteering to give, instead of taking, whatever I can to SAGGROUP. The leaders of any organization must be attentive to the needs of the members. These leaders must also get the members involved in the organization. As a member of the Executive Committee, I would strive to do whatever is necessary to accomplish these goals.

Mike Jones

Candidate for Secretary

The position of secretary is very important for the effective operation of the SAGGROUP Executive Committee. The secretary must be responsive to the other committee members and to the user community. The ability to communicate effectively will be required of the secretary in his/her duty. The secretary must also possess strong technical skills.

This combination of attributes and abilities is unique to the position of secretary and requires an individual equal to the task. My 10 years experience as systems programmer and data base administrator have given me the ability that would make me a good secretary for the Executive Committee.

My objective for becoming secretary of the Executive Committee is to help make the committee an even stronger voice for the SAGGROUP.



Carlo A. Scagnelli

Candidate for Secretary

I accept the nomination to the position of secretary to the SAGGROUP Executive Committee appreciative of the confidence which those who made the nominations have in me. Being responsible for data base administration at Central Hudson Gas and Electric Corporation, where we have several major systems installed spanning customer information, financial and plant equipment system, I have an ever increasing interest in Software AG products including ADABAS and NATURAL. I feel the position of secretary would be of major benefit to my employer and our data base administration function as a result of increased participation in the users' group. At Central Hudson, all new applications are developed under the ADABAS/NATURAL philosophy running on an IBM 3083 and 4341 under CICS and OS/VS1. During the past several years, I have been responsible for the development of our materials management system and the alpha and beta testing of NATURAL 1.2 as well as the development of the ADABAS/MSA human resources interface. I have served as chairman of the NATURAL SIG in 1982 and of the Security Environment SIG in 1983. With the latter, I have stressed participation as the key and have assigned SIG representatives in the Far East and South America to make the SIG more meaningful to users outside the United States.

In accepting the nomination, I understand the functions of the office to include issuing notices, publishing minutes of the Executive Committee meetings and documenting and mailing committee responses to users' group correspondence. If elected to the position, I promise to fulfill those duties to the best of my ability and satisfy your trust in me.

Tim McGovern

Candidate for ADABAS Product Representative

Massachusetts Institute of Technology (MIT) has been committed to developing data and information system in the ADABAS/NATURAL way for six years now. For the last four of these, I have had direct daily experience with both. It is increasingly important that these two products (and the TP and Operating System Market Place products) be cooperative and well integrated without losing valuable flexibility. That integration is a high priority for future ADABAS and NATURAL product representatives.

The communication process between a distributed vendor and an even more distributed user community is difficult to manage. Clearly this task is the foundation on which all of our efforts rely.

The backlog keeps getting bigger. Systems development efforts large, small and intermediate centralized, distributed and ad hoc demand better tools. ADABAS as the engine supporting those efforts has long proven to be effective and useful. Technological challenges to that effectiveness are becoming more and more apparent. The micro processor revolution distributed smaller architecture and broad base end-user computing are among the areas where rapid change has already been seen and where more can be expected. The installed and experienced users are an excellent source of suggestion (and pressure) for how the product line should be expanded and enhanced. That font is very deep. The product representative must focus that experience at the Executive Committee level with the representatives of Software AG.

In addition, SAGGROUP in concert with Software AG must ensure that the growing, new user communities expectations are met; that the products are delivered as advertised, particularly ADABAS,

the foundation of so many other efforts. Again, the product representative must call Software AG to task when it fails to meet customers' valid expectations.

Together Executive Committee members, users and Software AG must seek out solutions for the problems that face the information needs of all parties. We must avoid the pitfalls that threaten any well-established product (such as ADABAS) when historical realities stand in the way of exciting future possibilities.

I take the ADABAS product representative position and the commitment that is involved very seriously. I ask for your support and look forward to working together with all of you.

David Alexander

Candidate for NATURAL Product Representative

At Bud Antle, Inc., we have been using ADABAS since 1979 and NATURAL since 1980. We are now a 100% NATURAL shop running approximately 900 NATURAL programs in production; hence, our commitment to these products is obvious. One of my major concerns is the efficiency and usability of these products, as well as the features and options they contain. I am also concerned about the technical support, pricing policies, release dates and educational offerings. I have worked both as a DBA and as a manager so my exposure to the products has been from both a technical and administrative perspective.

As NATURAL Product Representative, I would address the broad issues of NATURAL as a programming language, particularly in terms of its efficiency and availability of standard functions.





Thirteenth International
Software AG Users' Conference
 April 29-May 3, 1984 Anaheim

REGISTRATIONS MUST BE RECEIVED PRIOR TO MARCH 23, 1984

**Please
 Fill Out
 Form
 Completely**

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Conferee Name _____
 Title _____
 Companion Name _____
 Company _____
 Company Address _____
 City, State, Zip _____
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User Consultant Guest Affiliate SAGNA Employee

FEES: Conferee \$595 _____ Companion \$295 _____ Consultant \$995 _____

- NOTE:** 1. An additional \$100 will be added to registrations which are received post marked after March 23, 1984.
 2. A \$100 fee will be charged for those who cancel after April 20, 1984.
 3. A \$300.00 no show fee will be charged to those who register, fail to cancel, and do not attend.
 4. Children *will not be admitted* to any Conference Function.

Please Invoice Payment Enclosed P.O. Number _____

**Send
 Invoice
 To**

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 Address _____
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 Attention _____

"The undersigned registrant acknowledges that the materials utilized in these sessions are proprietary to Software AG of North America, Inc. (SAGNA). They have been prepared for exclusive use of SAGNA's customers and are subject to the nondisclosure provisions of separate agreements between SAGNA and each of its customers."

 Attendee's signature (*Must be signed by attendee*)

SAGNA sometimes takes pictures of SAGNA-sponsored meetings for inclusion in SAGNA publications. Please submit any objections to this activity to SAGNA before the meeting.

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 America,
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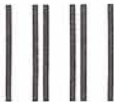
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Reston, Virginia 22091

Conference Registrar

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Jim Lee

*Candidate for COM-LETE
Product Representative*

My name is Jim Lee and I am running for the position of Software AG User Group COM-LETE Product Representative. I work for CCH Computax, Inc., as a systems programmer supporting COM-LETE and NATURAL. Our shop is also a ADABAS user.

I feel I could be an effective person in this position for the following reasons:

1. I appreciate the importance of dealing with a software vendor who is responsive to customer needs,
 2. I have 2½ years experience supporting COM-LETE and developing COM-LETE applications,
 3. I have recently dealt with the COM-LETE development group during my company's MVS/XA migration.
- Your support is greatly appreciated. □

SAGGROUP Constitutional Amendments

*Larry Jayne
Software AG*

The SAGGROUP Constitution has been in a state of continuing refinement over the last several years.

Recently another proposed revision was developed by Brett Aubrey who is the SAGGROUP President. The proposed revisions were developed as a packet and titled "SAGGROUP Constitutional Amendments." Each packet contained a letter from Brett Aubrey explaining the voting procedure, a proposed version of the SAGGROUP Constitution, and a ballot which outlined the proposed amendments. A packet was sent to each licensed user in the U.S. and groups of packets were sent to each affiliate who in turn routed them directly to each of their users.

Each licensed user may vote using the supplied ballot which is then either deposited in the ballot box at the Users' Conference or mailed directly to Richard Wolverton as outlined in the letter.

Those persons deciding to mail their ballot must be sure it is mailed in time for Richard to receive it by April 25, 1984, for it to be counted.

Ballots may be placed in the Ballot Box at the Users' Conference until 5:00 p.m. on May 1, 1984. The results of the balloting will be posted and announced at the conference and will be included in the next newsletter. Each user should take this opportunity to participate by voting on these important issues which will directly affect the organization of SAGGROUP. □

Users' Conference Registration

*Larry Jayne
Software AG*

The 13th Annual Users' Conference is right around the corner. To receive a registration packet please call the Users' Conference Registrar at 703/860-5050 and request a Users' Conference Registration Packet. If you simply wish to register for the conference, please complete the Users' Conference Registration Form enclosed in this newsletter and send it to:

Users' Conference Registrar
Software AG of North
America, Inc.
11800 Sunrise Valley Drive
Reston, Virginia 22091 USA

Upon receipt of the completed form, we will send you a confirmation of registration and additional details about the conference and the Disneyland Hotel and Convention Center.

A late registration fee of \$100 will be added to all registrations postmarked after March 23, 1984. A \$100 late cancellation fee will be charged for those who cancel their registration after April 20, 1984. A \$300 no-show fee will be assessed for those who have registered, do not attend the conference, and fail to cancel their registration by April 27, 1984. □



Dutch/Belgian Region

*Ellen Molenaar
Automation Centre
"VOLMAC" B.V.*

On October 12, 1983 a regional users group was founded for the Netherlands and the Dutch speaking part of Belgium.

The dutch speaking part of the Benelux has over 25 NATURAL/ADABAS installations, a large amount in this small region (the Gross National Product is about 1/5th of the United States of America GNP).

The foundation meeting was attended by 27 DP managers and data base administrators, representing 16 Dutch and Belgian companies. Mr. Wolfgang Mudter—Marketing manager of Software AG Darmstadt—gave a presentation on Software AG, its customers worldwide and on product development.

His talk centered on:

1. ET/BT logic at Network level: securing logical integrity of distributed data bases
2. ACCESS: which enables tp-monitors to communicate
3. DATAVIEW: the relational join facility for ADABAS, VSAM, DL/1 and sequential files
4. NPL Language extension:
 - Print—for text printing
 - SEPERATE—Separation of data on delimiters from one input field to multiple output fields
 - Extended mapping support (field names become part of the map)
 - CALL—for true NATURAL subroutine
 - READ/FIND ONCE—for parallel processing of data structures
5. ADABAS online services: to perform ADABAS utility and operator command functions interactively

6. CON-TEXT: the office automation and formatting system, fully integrated with NATURAL and ADABAS, it provides users with the following functions:

- processing of textual data from a NATURAL Program
- integration of text and data components into one output document
- title and footnote processing
- automatic table of contents creation for handbooks
- automatic index creation.

The newly elected officers of the Dutch/Belgian Region are:

Chairman

Peter van Buitenen
Udema Services and
Systems B.V.

Vice Chairman

Jan Harskamp
Post Telegraaf Telefoon
(PTT)

Secretary

Ellen Molenaar
Automation Centre
"VOLMAC" B.V.
P.O. Box 2575
3500 GN UTRECHT

□

South African Region

*John Baker
Standard Bank of South
Africa Limited*

At our AGM in May, 1983, John Baker of Standard Bank was elected Chairman. Div de Villiers of South African Transport Services is our ADABAS representative and Colyn Dee of South African Breweries is our NATURAL representative.

Meetings are held on the last Thursday of each month and attendance runs at 30 to 50 people. There is a fixed agenda with 2 presentations at each meeting.

One presentation is on the use of SAG products at a user site and the other is on a topic of general interest to users.

Some of the more interesting events and presentations were:

- Finalizing by-laws for running the local users' group
- Running NATURAL under TSO using the ISPF editor
- How successful has file design been?
- ADABAS tuning
- NATURAL programming standards
- New products and releases
- Visit by Peter Page' to discuss NATURAL futures.

The local SAG affiliate, Systems Programming Limited (SPL), is setting new sales records and has had to beef up their support numbers so we are looking forward to their increased user interaction and vendor support.

Now that we have caught up on our contributions to the Newsletter we promise to contribute regularly and more fully in the future. □

Eastern Canada Region

*Jan Warren
Ultracom Consulting
Services Ltd.*

Despite lousy weather in the "Great White North", the Eastern Canada Region Users' Group met on December 13 in Ottawa. The meeting was hosted by the Department of Regional Industrial Expansion and 27 persons from 18 companies attended.

The day began with a presentation by George Szakach, of Treehouse Software, on Trim. This product was of interest to many of the areas users' to produce various reports from the ADABAS command log. Specifically, many of us were interested in accounting statistics for MPM charge-backs.

Following George's presentation, Ted Hillis from Consumers' Gas presented a paper titled "The Role of Data Base Administration in the Systems Development Process at Consumers' Gas". Since Consumers' Gas has been using ADABAS since 1972, his experiences with the product were of help to the newer users as well as those of us who have been using ADABAS for several years.

The afternoon began with various administrative points including election of the next Regional Representative. Jan Warren has offered to continue as Rep for another year and the final decision has been left up to the users to be made by the next meeting.

The final presentation of the day was by George Gosline from the Data Base Utility Group who presented DBUG. DBUG provides performance analysis from the comand log as well as a PLOG extraction facility.

The next Eastern Canada Region Users' Group meeting has been scheduled for April 10, 1984. The meeting will be dedicated to data dictionaries with a few presentations and an open discussion in the afternoon. □

Northwest Region

*Alan Shue,
Manus Services Corporation*

The December 2, 1983 meeting of the Northwest Region was attended by 44 persons from 23 organizations. The major topic of the meeting was how to implement and effectively use a data dictionary in an organization.

Paul Griffith of Seattle-First National Bank was a guest speaker. He gave a presentation on the data dictionary strategies which have been developed at the bank.

Mike Brackett of Washington Employment Security Department presented his organization's approach to data dictionary. Included was discussion of (1) the purpose of a data dictionary, (2) the responsibilities, standards and procedures that need to be defined, (3) an approach to dictionary implementation, (4) a sample structure for the objects and relationships to be maintained in the dictionary, (5) a data naming standard, and (6) the uses of a dictionary.

Larry Jayne, the SAGNA Users' Group Liaison, discussed the SAGGROUP newsletter. He mentioned that he is always looking for more user-written articles on Software AG product experiences or other relevant user topics. Larry also gave an overview of the 1984 annual Users' Conference in Anaheim, and discussed ways to improve the preparation and usefulness of the conference agenda.

Bill Chapman of Software AG gave an extensive presentation of "The NATURAL Connection", a future SAGNA product for accessing NATURAL from a PC and for uploading or downloading data between a PC and a mainframe. Bill also spoke at length about the current capabilities of PREDICT, and how PREDICT is expected to evolve in the future.

A discussion about data dictionary usage by the User Group members turned up that a variety of dictionary tools, usages and problems exist. In general it was found that most user organizations were not getting maximum use from their dictionary, and that the non-SAG dictionaries didn't have simple and powerful facilities which interfaced nicely with an ADABAS environment.

The user group business focused on adoption of a set of bylaws for the Northwest Region. Proposed bylaws were submitted by the regional representative and discussed by the users' group. Procedures for accepting new members and deleting inactive members were proposed. The regional representative will incorporate modifications into the bylaws based upon the discussion which was held, and the amended bylaws will be subject to a vote of approval at the next regional meeting.

The next Northwest regional meeting will be held on Friday, March 2, 1984. Election of next year's regional officers will be held at that meeting.

The meeting questionnaires we use at our meetings to get comments about future topics, improvements to the meetings, etc. are very helpful. I encourage each of you to fill one out at each meeting. A few comments from last meeting were:

- The dictionary presentations were helpful. More presentations and exchange on how to use the dictionary "the right way" would be helpful
- Followup presentations on naming standards and conventions, documentation standards, and integrating the dictionary actively into the system development process would be of interest
- Other topics suggested for future meetings:
 - discussion of organizational structure of our different installations; what have people found to be effective?
 - tools for file and data base design
 - strategies and methods for file, data base and system conversion and integration
 - the decision process used by an organization for choosing COBOL, NATURAL, etc. as the tool for an application or individual program
- Move the Regional business to the front of the agenda in order to get better participation. □



Pacific Southwest Region

*Clola Ferris
The Aerospace Corporation*

Mike Ater, SAGNA Western Area Vice President, presented a report on future directions of Software AG. Some of the topics covered were the integrated NATURAL products, Reflective data base, Network products, VAX capability, PC load capability, NET-WORK for distributed data bases, and COM-LETE. He related the need for full product integration because of the widespread use of computing and assured the users that SAGNA was developing integrated NATURAL tools.

An open discussion followed on ADABAS, NATURAL, and COM-LETE.

The January 27 meeting was hosted by Ticor, Los Angeles, California.

Nominations for regional officers were opened by the Regional Representative. Elected officers are Regional Representative, Vice-President, Secretary, and Treasurer. The election results will be announced in the March 30 meeting.

Alan Florence of CCH Computax, El Segundo, gave a presentation on ADABAS performance problems and solutions. The limiting factors to performance were identified in a six month study. The update command using the same thread; sorts that may require high I/O; volume of I/O; I/O contention. Solutions were to rework the application logic and data base design; restructure the disk layout; resequence data in files; increase data block size. Alan explained the resolution techniques used by Computax and the user defined blocksize procedure supplied by SAGNA.

Duane Walker, The Aerospace Corporation, shared the programs he wrote to copy NATURAL source code. Currently, the menu driven utility copies programs from a production data base library to a test data base library by using a workfile. The system is tailored to the Aerospace environment but may be modified for other installations. Duane plans to enhance this system to cross machines as well as data bases.

Roy Richardson of Management Applied Programming, Los Angeles, reviewed the COM-LETE 4.3, V2 installation and features he tested as a beta test site. Roll data sets no longer reside in data storage. Up to 99 roll data sets can be on mixed device types. Some new features are user ID maintenance, user library table, broadcast message, PF key settings and display for utilities, printout spooling. COM-LETE commands will start with 'U' or 'T'. User ID six characters in length. Support for JES. XA capability.

Ted Dumetz, Ticor, told Users about the large file load he ran to move 8.5 million records from 3350 to 3380 disk packs. The file was spread on different packs which were formatted first. The successful load took 23.5 hours. It was suggested to use ADAMUP instead of LOADER to reduce run time. □

Sierra Pacific Region

*Colette Farabaugh
Castle & Cooke, Inc*

Since the attendance at the December 6, 1983 Regional meeting (in Monterey) was so light, I thought a recap of what took place might be in order for those of you who couldn't make it.

The meeting started off with a presentation by George Szkach of Treehouse Software. George explained how TRIM, his ADABAS command log extract/summary program, worked and the benefits to be gained by its use. He distributed sample reports which were generated by TRIM and explained how the figures were derived and how they could be interpreted.

Larry Jayne, Software AG's Users' Group Liaison, spoke about the upcoming conference in Anaheim. Some of the points mentioned were:

- A visit to Disneyland was not part of the planned activities. The cost for rental of Disneyland is too prohibitive. However, they are looking into a trip to Knott's Berry Farm.
- The food is guaranteed to be better than that served in New Orleans.
- Companions will eat all meals with attendees.

If you have any suggestions or questions about the conference sessions, please feel free to call Larry in Reston.

Larry also took the opportunity to speak about and answer questions on Software AG's education program. He stated that with the new educational facilities available in Reston, public classes elsewhere would not be scheduled unless there was a specific request and enough people to warrant it.

Mike Ater, Vice President of Marketing in the Western United States, talked a little on his position and those who worked for him. He mentioned that the staffing at the Software AG San Francisco branch office was diminished by two with the resigning of both Jim Becker, Salesman, and Ken Torri, SSR. Mike was in the Bay Area to interview replacements for the two, and indicated that the staff size may be increased beyond the current level of three, in order to make a concentrated effort to get more ADABAS users in Northern California. When asked, he did say that the office location would remain on the peninsula, rather than move into the city of San Francisco.

After lunch, there was an informal discussion on problems encountered during conversion from NATURAL 1.1 to 1.2. These seemed to be mostly minor, irritating problems which did not cause any major difficulties.

The next meeting has been scheduled for Tuesday, March 6 and will be hosted by the Health and Welfare Data Center in Sacramento. The tentative agenda will include a presentation by Bob Copren, called "Structured AD HOC Inquiry", and a question and answer session on PREDICT. Software AG will have someone at the meeting to answer questions and get us over any humps in using PREDICT, so get PREDICT installed. Also on the agenda is the election of the Sierra Pacific Regional Representative and Recording Secretary for 1984/85. Please have some people in mind to nominate.

I'm sorry more people couldn't make it to the meeting in Monterey. The weather was great and we had a good agenda. I apologize for the lateness of the announcement letter. The letter for the March meeting will get to you in plenty of time to make plans. □

Southeastern Region

*Kevin Wilson
Duke Power*

The Southeastern Region users met November 30, 1983 with 34 attendees from 18 organizations.

A regional Constitution was reviewed and approved. This Constitution should provide for smoother transitions between officers and for the continued existence of an active regional group.

New officers will be elected at the March meeting. John Osteen and Jack Beyer were accepted as volunteers for a nominating committee. They will solicit nominations for Regional Representative and Vice President who will begin their terms at the 1984 Annual Conference in Anaheim, California.

The region decided to sponsor a one day Advanced NATURAL class for members on the day before the March meeting. Kevin Wilson will coordinate this class.

Mr. Julian Brandes was on hand from SPL to present their product known as ADAPREP. ADAPREP is a preprocessor system designed for PL/1 and COBOL programs which generates ADABAS command-level calls into source programs. The preprocessor uses data from the ADABAS Data Dictionary when generating I/O structures in source programs and also outputs a file of DDUPDATE transactions for updating program-usage entries in the dictionary.

The Problem Sharing Session showed ADABAS SM07 and NATURAL SM04 to be pretty stable releases. Most shops did not have anything which they considered a "problem" with the software. Many shops already have NATURAL SECURITY, NATURAL/VSAM and PREDICT but most personnel have yet to install the products. As soon as most of the shops get more active with the use of these products and start to see how they actually do operate, their integration and co-existence will prove to be a major topic in future meetings.

Kevin Wilson, the North American Area Representative, gave a report of the SAGGROUP Executive Committee Meeting which was held in early November.

Al Wolfson, a Software AG SSR out of the Atlanta office, presented an overview of PREDICT. Al pointed out what to expect from future versions of PREDICT and what details to look for in the present version. PREDICT is going to do as much for controlling the NATURAL environment as it is for maintaining dictionary information. □



ADABAS Product Rep's Report

John A. Kaye
Foremost Insurance Co.

This issue's article will be short and to the point. I am nearing the end of my term as product representative, and I must say that it has been both a pleasure and a burden. I am proud to have contributed in at least a small way to the improvement of the new Change/Enhancement process. But the most important aspect of Change/Enhancement is, and will always be, the actual voting. This is one way each of us has of letting Software AG know how we, as a user community, feel about the direction of product growth and the priority of our needs. To all of you who have voted, I thank you sincerely. To those who simply ignored or discarded the ballot packet, I can only say "dumb move"! You only get so many chances to make yourself heard, and I'm afraid you just missed your best chance for this year.

Thanks also to all of this year's special interest group chairpersons. It has been a pleasure working with you, and I appreciate your efforts to gather and disseminate information of interest to us all. And, I would encourage all users to become more active in both the special interest groups and in the users' group as a whole. After all, all of us benefit from shared user experiences, but the active user benefits most of all.

And finally, I encourage every user to cast a vote in this year's election of members to the Executive Committee. This is another one of those golden opportunities which requires little effort but can have a real impact on the

success of our users' group. Good luck to all of the candidates for office this year, and my successor can be assured of my support and assistance at the annual conference and during the transition. □

ADABAS Special Interest Group Chairpersons

Data Administration

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Data Dictionary

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CCH Computax, Inc.
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DBA Tools

Mr. Galen Hansen
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Anchorage Data Center
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Anchorage, Alaska 99503
(907) 263-6706

DOS

Mr. Orrin Adler
Jewish Federation of
Metropolitan Chicago
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Education/Documentation

Mr. John W. Osteen III
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& Co. Inc.
Savannah River Labs
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Large Data Bases

Mr. Eric Seifert
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Consumer Banking, Travel &
Entertainment Group
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(516) 752-3202

Performance

Mr. Bob Becker
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P.O. Box 2450
5800 Foremost Drive S.E.
Grand Rapids, Michigan 49501
(616) 942-3364

Software Interfaces

Mr. Carl Tannenbaum
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ADABAS/VM

Mr. Tom Dimock
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Admin. Computer Services
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Scientific/Engineering

Mr. Thomas Galloway
Pratt & Whitney Aircraft
P.O. Box 2691
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User Profile

Mr. Richard Judd
State of Alaska
Dept. of Public Safety
Div. of Administrative Services
Information Systems Section
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Anchorage, Alaska 99502
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ADABOMP

Mr. Mike Jones
TELEX Computer Products
6422 East 41st Street
Tulsa, OK 74135
(918) 627-1111

NATURAL Product Rep's Report

Ralph Jenks
Coastal Corporation

I am sad to report that the previous issue of the Newsletter contained no user written articles on NATURAL. I cannot believe that our vast and talented user community is not using this marvelous family of products and using it in many different and exciting ways.

Other users would like to know about the successes, approaches and problems you have encountered. How are you implementing NATURAL Security? How are NATURAL Graphics being used in your shop? How are you using NATURAL/VSAM and when you use VSAM rather than ADABAS? What improvements in productivity have you realized using NATURAL?

Please folks, let us in on your successes and problems. Write a small article and keep your fellow users in the know.

In talking with many NATURAL users throughout this year, I have received many requests for examples for NATURAL standards from veterans and novices alike. As a result, I am contacting the Regional Reps and asking them to solicit copies of NATURAL standards from the companies in their region. These copies will be gathered together by the NATURAL Product Rep., consolidated to reduce the redundant material, and distributed to the NATURAL user base.

This could be a great aid to new users and I'm confident even the old vets will learn a few tricks. □

NATURAL Error Message Reporting

Mark Ambrose,
TICOR

At first, you might wonder why you would want a printout of the the NATURAL Error messages; after all, just press "?" and "ENTER" in on-line mode. TICOR has a lot of users who insist on doing NATURAL development work in batch mode. These folks need the expanded error report to decipher the on-line NATnnn error messages. Old-time users will recall that the NATURAL V1.1 Reference Manual contained the error messages and their explanations.

The advantages of using this method are:

- Saves ordering the NATURAL Error Messages Manual
- Saves copying time and cost
- Shows YOUR customized errors, if you changed them before NATMAINT INPL
- Allows suppression of some error messages (I have excluded the "7000 series" errors): saves paper and does not reveal dynamic parm details
- Ensures that your error message manual is "in-sync" with your messages in the NATURAL System file.

The techniques used in the following program are relatively simple: READ WORK FILE, and a subroutine. Although short, it produces output of interest to most organizations.

```

NEXT ADHOC
0010 * ERRMAN1 MRA 04/20/83 Produce NATURAL ERROR MSGS
0020 * ERRMAN2 MRA 04/27/83 Try it with SM03 installed
0030 *           MRA 10/17/83 Add skips, larger page, center
0040 *
0050 FORMAT PS=80 LS=96
0060 *
0070 RESET ##ENO(A4) ##EII(A2) ##ETEXT(A78)
0080 REDEFINE ##ENO( #ENUM(N4) )
0090 REDEFINE ##ENO( #ENA3(A3) #ENA1(A1))
0100 *
0110 *****
0120 *
0130 READ WORK FILE 1 ##ENO ##EII ##ETEXT
0140 REJECT IF ##ENO = '0000'
0150 REJECT IF ##ENO = '7001' THRU '7299'
0160   RESET #HEAD(A5)
0170   IF ##EII = '01' DO
0180           PERFORM BANNER
0190           MOVE 'TEXT:' TO #HEAD
0200           DOEND
0210   IF ##EII = '04' DO
0220           MOVE 'EXPL:' TO #HEAD
0230           SKIP 1
0240           DOEND
0250   IF ##EII = '18' DO
0260           MOVE 'ACTN:' TO #HEAD
0270           SKIP 1
0280           DOEND
0290 WRITE NOTITLE 8X #HEAD 2X ##ETEXT
0300 *
0310 *****
0320 *
0330 DEFINE SUBROUTINE BANNER
0340   SKIP 1
0350   WRITE NOTITLE 8X '.' (80)
0360   IF ##ENO = MASK(NNNN)
0370     THEN FIND FIRST V12-SYSTEM-83 WITH ERRNR = #ENUM
0380     ELSE DO
0390       RESET ERRTXT(1)
0400       MOVE 'x' TO #ENA1
0410       DOEND
0420   COMPRESS 'NAT' ##ENO INTO #NATENO(A7) LEAVING NO SPACE
0430   WRITE NOTITLE 8X #NATENO 2X ERRTXT(1)
0440   WRITE NOTITLE 8X '.' (80)
0450   SKIP 1
0460 RETURN
0470 *
0480 *****
0490 END

```

NOTES:

1. Each installation must change line 0370 by substituting their own name of the DDM for their NATURAL System file.
2. Also, you may wish to alter the REJECT criteria in line 0150. We do not allow general use of the dynamic parameters (a set of front-end "kickstarters" do the work), so we save some paper and a lot of questions by suppressing the "7000" series messages.
3. We have an IBM 3800 laser printer. With appropriate DCB information in the JCL we are able to print on 8½ by 11 inch paper rotated 90 degrees; hence the page size parameter PS=80.
4. This reflects the SM03 release level of NATURAL 1.2 which we are running in production. It should continue to work in future releases unless the format of 'NATURAL .V12.ERROR' which the program reads as work file 1 is changed.
5. JCL sets work file 1 to your equivalent of 'NATURAL.V12.ERROR' (see the NATURAL Installation Manual).

EXAMPLE:

NAT001 Missing/Invalid Syntax; Undefined
Variable-Name/Keyword

TEXT: Missing/Invalid Syntax, Undefined Field Name,
Statement Order Error

EXPL: During statement checking, a statement ended according to the structure of the statement. The syntax checker now expects a new statement which was not found. The cause of the error could be a misspelling of a variable name or keyword which is used within a statement to append an optional portion of the statement.

ACTN: Evaluate the structure of the program and correct any errors (e.g. misspellings).

NATURAL Special Interest Group Chairpersons

Security Environments

Mr. Carlo A. Scagnelli
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284 South Avenue
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(914) 452-2000

Natural Techniques

Mr. Bill Salassi
Superior Oil
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Houston, TX 77001
(713) 751-4042

Natural: The End User Environment

Mr. Daniel L. Keller
Chemical Abstracts Service
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Columbus, OH 43210
(614) 421-3600

Natural Micro Mainframe Link

Mr. Christopher A. Willis
Computer Sciences
Corporation
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Falls Church, VA 22046
(703) 237-2000

Natural Futures

Mr. Steve Holland
University of Texas
Box Q
Austin, TX 78712
(512) 471-7128



COM-LETE Product Rep's Report

*Eric Stratmann
Ethyl Corporation*

As you know, the 13th International Software AG Users' Conference will be held in Anaheim on April 29-May 3. If you are still debating whether or not to attend the conference, I highly recommend that you attend. The sessions at the conference which will be specifically about the COM-LETE product are listed below:

- User Paper given by Roy Richardson titled "Managing VSAM and ISAM Data Sets In A COM-LETE Environment"
- COM-LETE Performance & Tuning Workshop
- COM-LETE Tools Workshop
- COM-LETE Special Interest Group General Session
- SAGNA Presents COM-LETE Directions
- SAGNA Presents COM-LETE Change/Enhancements
 - COM-LETE V4.3 Applications Enhancements
 - COM-LETE V4.3 Systems Enhancements

The latter two sessions are formal education classes which will be presented by SAGNA. The addition of these classes is a first at a users' conference. I think it is a very good idea and heartily recommend that new and old users of the COM-LETE product attend. Personally, I feel that I receive as much information on a subject from the other attendees of a class as I do from the instructor. Therefore, there is a potential for having ten times the number of users at this class than would normally attend at the training center. So, get out and attend these new sessions at the Anaheim conference and show the vendor that you appreciate this new idea. □

COM-LETE Special Interest Group Chairpersons

COM-LETE Tools

Mr. Robert McGue
MITRE Corporation
Mail Stop B100
P.O. Box 208
Bedford, MA 01730
(617) 271-2658

Performance and Tuning

Mr. Roy Richardson
Management Applied
Programming, Inc.
6420 Wilshire Blvd
Suite 200
Los Angeles, CA 90048
(213) 658-7220

CHANGE/ENHANCEMENT REQUEST FORM

ADABAS

ADABOMP _____	PRE-DICT _____
CTCS _____	SECURITY _____
DATA DICTIONARY _____	UTILITIES _____
DOCUMENTATION _____	VM _____
INTERFACES _____	VTAM _____
MPM/NUCLEUS _____	OTHER _____
PERFORMANCE & ACCOUNTING _____	

COM-LETE

COM-PASS _____	SECURITY _____
FILE I/O _____	TERMINAL SUPPORT _____
INTERFACES _____	UTILITIES _____
NUCLEUS _____	OTHER _____
PERFORMANCE & ACCOUNTING _____	

NATURAL

DATA HANDLING _____	LOGIC _____
DDM _____	SECURITY _____
DOCUMENTATION _____	SUBROUTINES _____
EDITOR _____	SYSTEM _____
GRAPHICS _____	UTILITIES _____
I/O _____	VSAM _____
INTERFACES _____	OTHER _____
PERFORMANCE & ACCOUNTING _____	

REQUEST TITLE: _____

REQUEST DESCRIPTION: _____

REQUEST BENEFITS: _____

DATE: _____

SUBMITTED BY: _____

NAME: _____

TITLE: _____

COMPANY: _____

CUSTOMER ID NUMBER: _____

ADDRESS: _____

TELEPHONE: _____

FOR C/E COORDINATOR USE ONLY:

DATE RECEIVED: _____

RECEIVED BY: _____

DATE PROCESSED: _____

PROCESSED BY: _____

DISPOSITION: _____

ACC-REQUEST NUMBER: _____

CONS-REQUEST NUMBER: _____

REJ-REASON: _____



- FOLD -



PLACE
STAMP
HERE

Ms T. Lynne Snelling
Change/Enhancement Coordinator
P.O. Box 1082-B
Alvin, Texas 77512-1082



- FOLD -

Advanced Markets News

Catherine Vivona
Software AG

ADABAS/MSA Capabilities

We are pleased to announce a new arrangement between Software AG of North America and MSA relating to MSA applications under ADABAS. Effective January 1984, MSA has assumed full responsibility for worldwide marketing and support of the ADABAS/MSA Capabilities.

SAGNA and MSA believe that this new approach will benefit customers by providing a single direct support procedure for the end-user. Both vendors will continue to work together to keep the ADABAS/MSA Capabilities current with new releases of MSA applications and ADABAS.

The ADABAS/MSA Capabilities are available for the General Ledger, Accounts Receivable, Accounts Payable, and Human Resources applications. For additional information, Please contact your local MSA sales representative.

ADABAS/SAS Interface

Decision Resources Corporation has recently announced the availability of DOS/VSE and CMS versions of EXTRACT/A, the ADABAS/SAS Interface. DRC has also released Version 1.2 of EXTRACT/A which offers OS users improved performance, compatibility with PREDICT, and an external exit for user written security programs. Lynn Gustafson of Decision Resources will be happy to answer your questions regarding EXTRACT/A. She can be reached at (202) 223-9430. □

Software AG Education News

Stan Maring
Software AG

We are proud to announce an expansion of our 1984 education schedule to include a series of product training classes in our Denver, Colorado facility.

Classes and their dates are as follows:

- ADABAS Concepts & Facilities March 5-6
- NATURAL Applications Workshop March 7-9
- NATURAL Advanced Techniques Workshop March 20-22
- ADABAS Direct Calls Programming April 16
- ADABAS Internals April 17-18
- ADABAS Performance & Tuning April 19-20
- COM-LETE Applications Workshop June 19-22
- COM-LETE System Programmers Workshop June 26-29

These special classes will be held at the Software AG Building located at 300 Union Boulevard in Lakewood, Colorado and will be taught by local Software AG system support representatives. Student registration will be handled through the Reston Education department. Students are encouraged to register as soon as possible since room size restrictions will limit classes to 14 students.

For additional information or to register for a class, please contact one of our Education Registrars at (703) 860-5050. □

Current Release Levels

The following is a list of current System Modifications that are available. Please contact Ann Fowler (703) 860-5050 if you need current SMs.

ADABAS: V4.1

- OS SM Level 8
- DOS SM Level 8

ADABOMP: V2.0

- OS
- DOS

ADABAS/VM: V1.1.8

NATURAL: V1.2

- OS SM Level 5
- DOS SM Level 5
- CMS SM Level 5

ADABAS/VTAM: V1.1

NATURAL/GRAPHICS: V1.0

COM-LETE: V4.2

- DOS only

COM-LETE: V4.3

- OS SM Level 1

CHANNEL-TO-CHANNEL COMMUNICATIONS SYSTEM: V3.1

NATURAL/VSAM: V1.2

- OS SM Level 5
- DOS SM Level 5

NATURAL Security System: V1.2

- OS SM Level 5
- DOS SM Level 5
- CMS SM Level 5

PREDICT: V1.0

- OS SM Level 2
- DOS SM Level 2
- CMS SM Level 2

Software AG News



Software AG Education Class Schedule April-June 1984

Course	Date/Location	
	Reston	Denver
ADABAS Concepts and Facilities	April 9-10, 23-24 May 7-8, 14-15 June 4-5, 18-19	
ADABAS Direct Call Programming	May 14 June 11	April 16
ADABAS Internals	May 15-16 June 12-13	April 17-18
ADABAS Performance and Tuning	May 17-18 June 14-15	April 19-20
ADABAS DBA Skills Workshop	April 2-6, 16-20 May 7-11, 21-25 June 4-8, 25-29	
ADABAS Structured Design	May 22-25	
NATURAL Applications Workshop	April 11-13, 25-27 May 9-11, 16-18 June 6-8, 20-22	
NATURAL Advanced Techniques Workshop	April 9-11 June 11-13	
NATURAL for the Business Professional	April 16-18 May 30-June 1 June 19-21 June 25-27	
COM-PLETE Applications Workshop	April 2-5	June 19-22
COM-PLETE System Programming Workshop	April 23-26	June 26-29

SAGUTILS

(Software AG Technical Information Logs System)
The current distribution level of SAGUTILS is Release 3 Update series 8402. □

Early Warning

The Early Warning System was instituted to provide timely technical information (and, whenever possible, fixes) for items, problems with the software, and security.

The most current Early Warning distributed at press time (as of 2/13/84) is EW161 NATURAL V1.2 SM04. □

Customer Support Numbers

Business Hours:
7:00 a.m.- 6:00 p.m. Mountain Time, Monday-Friday
(303) 233-6500
(800) 525-7859

Emergency:
After hours and weekends
(303) 233-6500

Notice: The product information presented here represents the official release dates/levels for all products currently committed to by Software AG of North America, Inc. □

Tools Tapes

Tools tapes contain user-written programs and documentation. The material on each tape is not maintained by Software AG; the tapes are distributed as a service to licensed users of Software AG products. Requests for Tools Tapes should be submitted using the Request For Tools Tapes form enclosed. Current versions are:

DBA Tools Tape Version 8309
COM-PLETE Tools Tape Version 8306 □



SOFTWARE AG USERS' GROUP Tools Submission Form

Instructions:

1. Any user may submit tools for consideration of incorporation in the TOOLS tape.
2. Each tool submitted must include a member "DOCUMENT" which provides adequate documentation for other users to install and use the tool.
3. Tools must be received by the TOOL SIG Chairperson by the end of the 2nd month of the calendar quarter to be included in that quarter's release tape.
4. Send source modules only.
5. Each tool should represent a program or group of programs which are complete in themselves. Unrelated items should be submitted as separate tools.

Send DBA Tools for ADABAS & NATURAL to: Mr. Galen Hansen, State of Alaska, Anchorage Data Center, 3300 Fairbanks Street, Anchorage, AK 99503, USA, Tele: 907/263-6706

Send COM-PLETE Tools to: Mr. Robert McGue, MITRE Corporation, P.O. Box 208, Bedford, MA 01730, USA, Tele: 617/271-2658

Media: Tape: 800 bpi _____ 1600 bpi _____ 6250 bpi _____, Other: _____

Data Created By: IEBCOPY _____ IEHMOVE _____ CUPOUNLD _____ (do not use for DBA Tools)

Other _____ (specify & enclose printout)

Operating System: _____

Is this a replacement tool? _____ If Yes, which tool does it replace? _____

Submitted by:

Name _____

Company _____

Address _____

City _____ State _____ Zip _____

Telephone () _____

Tools Request Form

REQUEST

Any licensed user of Software AG products may request a copy of the DBA (for ADABAS & NATURAL) Tools or the COM-PLETE Tools.

Complete the information below and send to: Users' Group Liaison, Software AG of North America, Inc.
11800 Sunrise Valley Drive, Reston, VA 22091 USA

Send: DBA Tools Tape (for non-DOS users) DOS DBA Tools Tape (for DOS Users) COM-PLETE Tools Tape

Note—Both of the above DBA and DOS DBA Tools tapes contain the same set of tools. The only difference is the DOS DBA Tools tape is DOS readable.

Ship To: (Please type or print)

Name _____

Organization _____

Address _____

City _____ State _____

Zip _____ Country _____

Bill To: (A cost of \$15.00 is charged for each of the above tapes that are shipped.)

Send invoice to SHIP TO name above Send invoice to person below (Please type or print)

Name _____

Organization _____

Address _____

City _____ State _____

Zip _____ Country _____ P.O. # _____



