Welcome to ANCHORY

ANCHORY is a system that provides timely retrieval of textual data by keyword and other relevant information on a 24-hour per day, 7 day per week basis. The ANCHORY hardware platform and BRS/Search, a commercial software product, is the engine behind ANCHORY text retrieval and database management functions.

This team is responsible for the life-cycle support and user assistance for the ANCHORY Information Storage and Retrieval System.

ANCHORY contains three years of full text reports written by NSA, CIA, DIA, State and Foreign Broadcast Information System, as well as Reuters News Service, Cryptologic Intelligence Reports, and precis of hard copy reports.

MAUI is an acronym for Multimedia Access User Interface. This graphical interface

Login to ANCHORY provides a non-web based interface to ANCHORY.

Login to MAUI provides a web based interface to ANCHORY.

Last update: 12 April 2000
Please address Questions/Comments to

Released by NSA on 11-May-2004 pursuant to the Freedom of Information Act
Case #: 41989
ANCHORY

Data Characteristics & Database Specifications

1.0 (U) GENERAL

1.1 (U) Purpose

(U) In a text database system of the size of ANCHORY, the documentation of the data characteristic and database specifications is immense. This document will present a complete but somewhat generalized explanation of the documents that enter the ANCHORY database system. This document relies on the reader’s knowledge of and/or access to information in several areas including: design of the input load process, the flow and specific workings of individual program modules, and to some degree, the data itself. It makes heavy use of tables to show a complete list of items and the general differences between these items.

(U) This is a draft document. Updates to this document will be as appropriate.

1.2 (U) References

(U) ANCHORY T Project Plan, T531-ANCH/006/92, dated 26 June 1992.


(U) DCID 1/16 “Security Policy for Uniform Protection of Intelligence Processed in Automated Information Systems and Networks.”


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(U) SOLIS/INKSLINGER ICD, T32 and T331, draft.


(FOUO) NSA/CSS SIGINT Data Standards Summary, April 1989.

(FOUO) NSA/CSS Cryptologic/Intelligence Data Elements List, November 1988.


(U) Anchory Unit Development Folders (UDF) for the Input Load Process.

2.0 (U) General Database Design

2.1 (U) Characteristics

(U) The ANCHORy databases most closely follow the hierarchical data model. Each database is composed of documents that are related in some way. Documents, which are analogous to database records, are composed of paragraphs. These paragraphs are then analogous to fields within a database record. Examples of paragraphs might be the document recipients, date of issue, or the entire text of the document. Paragraphs are composed of subparagraphs, sentences, and finally words.

2.2 (U) Available Databases (Types or Sources of Data)

The following SOLIS/BELLTOPPER databases will be available under ANCHORy. It also serves as a list of the types and sources of data.

- SOLIS

- SIGINT Product

- CIA product

- State Department cables

- DoD/DIA reports

- Unclassified FBIS reports

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Index to Intelligence Community Hardcopy reports
Reuters New Service
Cryptologic Intelligence Reports
National SIGINT Requirements List

(U) Additional databases available under ANCHORY:

JPRS  Joint Publication Research Reports
USSIDs  US SIGINT Directives

2.3 (U) ANCHORY Database Groups

Although division of data will follow those of SOLIS/BELLTOPPER somewhat, there are differences under ANCHORY. This design will divide the data into database groups. Some database groups are actually just one BRS database, and others groups of two or more databases. Databases groups differ by what data is to be kept on-line. In some, newly arriving documents are added while older data is "aged off". In others, a relatively static list of documents exists, and updates replace old versions with new ones.

2.3.1 (U) Data Aging

In database groups where "data aging" occurs, the total size may be too great to fit neatly into one BRS database. The solution is to split the data into groups of databases based on the date it arrived. When multiple databases are necessary, by convention the databases will be numbered 1, 2, 3, 4, and 5. Database 1 will contain the most current data and 5 the least current. The exact contents of each is described below.

- Database 1 will contain data which has arrived in the current month and the immediately preceding month.
- Database 2 will contain data which has arrived in the current calendar year (beginning Jan 1) but not contained in Database 1.
- Database 3 will contain data from the previous year (Jan 1 - Dec 31).
- Database 4 will contain data from the year previous to database 3 (Jan 1 - Dec 31).
- Database 5 will contain at least enough data from the year previous to Database 4 to permit a total of 3 years on-line.

This will assure that 3 years, plus 1 to 2 months to spare, is kept on-line if all three databases are employed. The naming convention is illustrated by this example. For the PROD database group the first database is PRO1, second is PRO2, and the third is PRO3.
2.3.2 (U) Static Databases

(U) In databases where a relatively static number of documents exist, some simply keep only the current version on-line, while others keep record of old versions by storing at least some older versions, into a historical database.

2.3.3 (U) Complete ANCHORY Database List

(U) The following shows a mapping of the ANCHORY database groups to the SOLIS/BELLTOPPER databases listed above. The database size if given in time (if it is a database where aging is employed) or indicates that only the most recent versions (MRV) and/or historical versions (HIST) are kept. This is followed by an estimated size (in megabytes) of just the data, for the entire database group. Indexing overhead is not included in this figure. The last column gives a brief description of the SOLIS/BELLTOPPER equivalent.

<table>
<thead>
<tr>
<th>ANCHORY DB Group Name</th>
<th>ANCHORY Database Name(s)</th>
<th>DB Size (time/Mbytes)</th>
<th>SOLIS/BELLTOPPER Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROD</td>
<td>PRO1</td>
<td>3 yrs / 2350</td>
<td>SOLIS</td>
</tr>
<tr>
<td></td>
<td>PRO2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PRO3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PRO4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PRO5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT</td>
<td>STA1</td>
<td>3 yrs /</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STA2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STA3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STA4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STA5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIAD</td>
<td>CIA1</td>
<td>3 yrs /</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CIA2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CIA3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CIA4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CIA5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXCL</td>
<td>EXCL</td>
<td>7 days /</td>
<td></td>
</tr>
</tbody>
</table>

15 March 1993
<table>
<thead>
<tr>
<th>ANCHORY DB Group Name</th>
<th>ANCHORY Database Name(s)</th>
<th>DB Size (time/Mbytes)</th>
<th>SOLIS/BELLOPPER Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>DODD</td>
<td>DOD1, DOD2, DOD3, DOD4, DOD5</td>
<td>3 yrs /</td>
<td></td>
</tr>
<tr>
<td>FBIS</td>
<td>FBS1, FBS2, FBS3, FBS4, FBS5</td>
<td>3 yrs /</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 yrs / 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 yr / 315</td>
<td></td>
</tr>
<tr>
<td>CIRS</td>
<td>CIRS</td>
<td>10 yrs / 104</td>
<td></td>
</tr>
<tr>
<td>JPRS</td>
<td>JPRS</td>
<td>3 yrs /</td>
<td>N/A</td>
</tr>
<tr>
<td>USSD</td>
<td>USSD</td>
<td>MRV/ 54</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MRV&amp;HIST/ 40</td>
<td>NSRL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MRV&amp;HIST/ 20</td>
<td>NSRL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MRV&amp;HIST/ 20</td>
<td>NSRL</td>
</tr>
<tr>
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<td></td>
<td>MRV&amp;HIST/ 6</td>
<td>NSRL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MRV/ 30</td>
<td>NSRL</td>
</tr>
</tbody>
</table>

(U) Total space for data only is 16 Gigabytes (GB) with an additional 16 GB for BRS indexing (overhead).
4.0 (U) Glossary

ANCHORY - (FOUO) The covername for the software system which provides on-line access to textual intelligence related documents.

BRS/Search - (U) The commercial text retrieval software which will be used in ANCHORY.

(FOUO) The covername for the reports received from the Foreign Broadcast Information System.