

# IAC Mission Success Stories

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CBIAC

Story 1

Story 2

## Chemical and Biological Archival Information Management System (CBAIMS)

The Chemical and Biological Archival Information Management System (CBAIMS) is a Defense Threat Reduction Agency sponsored effort. The objective of CBAIMS is to consolidate Chemical and Biological Defense (CBD) archival information into a single database and virtual repository. This database and repository will then be available to the entire CBD community. CBAIMS will produce a range of benefits for the CBD community. It will enable the Chemical and Biological Defense Information Analysis Center (CBIAC) to provide real time support to warfighters twenty-four hours per day, seven days per week anywhere in the world. CBAIMS will also accelerate delivery of mission-critical resources throughout the CBD community. Because it will be a single virtual repository for CBD information, CBAIMS will reduce the programmatic risk associated with CBD research and development efforts. CBAIMS will reduce cost to research and development efforts by eliminating unnecessary duplication of previous efforts, while reducing the cost to maintain CBD information resources by ensuring that they are consolidated for ready access.



*Continued on Story 1*

## Joint Service General Purpose Mask (JSGPM)

The Chemical and Biological Defense Information Analysis Center (CBIAC) supported the Edgewood Research, Development, and Engineering Center, U.S. Army Soldier and Biological Chemical Command (SBCCOM) in developing a novel filtration system for the Joint Service General Purpose Mask (JSGPM). The JSGPM is to be the next generation protective mask for many warfighter applications.

*Continued on Story 2*

Please visit our Web site at <http://www.cbiac.apgea.army.mil/> or send us an E-mail to [cbiac@battelle.org](mailto:cbiac@battelle.org)

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Information Systems Center



CBIAC      Story 1      Story 2

**Chemical & Biological Archival Information Management System (CBAIMS) (continued)**



CBAIMS will fully define and characterize all existing CBD collections to meet the objectives of the Program. A number of the major CBD information repositories and data systems are currently being worked under this program. These include the CBIAC, the West Desert Technical Information Center at Dugway Proving Ground, the Soldier and Biological Chemical Command (SBCCOM) Technical Library and SBCCOM Historical Office collection, the U.S. Army Chemical School collection, the U.S. Air Force CBD collection at Wright Patterson, AFB, the Naval Research Laboratory, and the National Archives.

The CBAIMS program evaluates collections at each site and uses a phased implementation approach. Site visits are conducted to obtain detailed information on the number of documents in a collection, the number of documents currently cataloged, the number of documents with abstracts and keywords, duplicate documents or citations, number of classified documents, status of distribution statements, number of documents available in electronic form, and the unique site requirements for holdings.

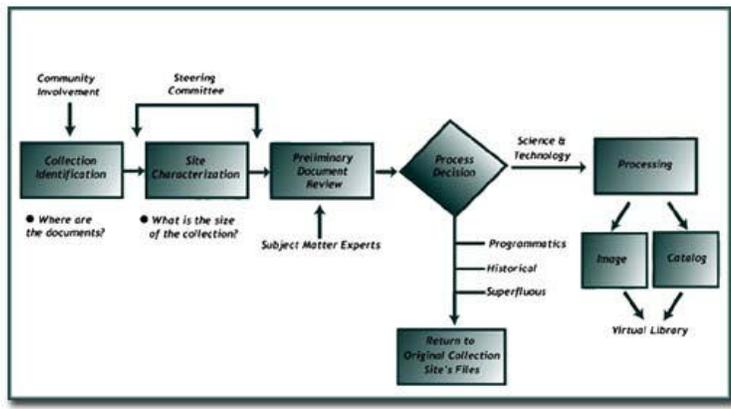
The existing CBIAC Web-based information system is being expanded via CBAIMS. The CBIAC will maintain a central unclassified database with additional duplicate checking and document cataloging via an encrypted link over the Internet. Database and image servers containing electronic copies of the CBAIMS are planned for high volume document distribution points determined by customer needs. The first such system is being implemented at Dugway Proving Ground.

For Each Site the CBIAC establishes on-site CBIAC support as needed to analyze repository content and formats, merges bibliographic databases, provides access for uploading and downloading data, and loads or scans images documents in prioritized order.

The CBIAC database system has been upgraded to support CBAIMS. This system currently provides community-wide access to the CBIAC databases and will host the combined database via the Internet.

The CBIAC has integrated the citations from the West Desert Technical Information Center at Dugway Proving Ground into CBAIMS, is working on deserting the Dugway image collection, and is working with holdings from the U.S. Army Chemical School and the National Archives. To date, CBAIMS has brought approximately 50,000 citations and 5,000 document images into the CBIAC, making them available to the CBD community.

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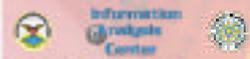
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CBIAC

Story 1

Story 2

## Joint Service General Purpose Mask (JSGPM) (continued)

The development goals set for the JSGPM were stringent, and pushed the technological envelope for protective masks and filter media. Among the targets set for the JSGPM were 50 percent reductions in weight, bulk, airflow resistance and cost, while providing a similar increase in field of view. Weight, bulk, field of view, airflow resistance and field of view are all significant user issues that have been enduring problems in protective mask development efforts from the beginning of such efforts up until the present.



The CBIAC's contributions focused on the physiological burden imposed on the warfighter wearing the mask by the airflow resistance of the filtration system intended for the JSGPM while maintain the necessary high standards of user protection against chemical and biological agents. Striking the balance between this physiological burden and level of protection against these threats has been the Achilles heel of filter development efforts.

The CBIAC's program successfully developed and demonstrated an innovative filter system that employed electret media in order to provide excellent aerosol filtration in a low profile, lightweight package. The CBIAC's filter media also provided greater than a 50 percent reduction in breathing resistance, which will significantly improve warfighter physiological capacity and operational performance when they are faced with chemical or biological agent threats. The filter technology developed under this CBIAC effort has been selected for implementation in the JSGPM program.

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