



Student Guide

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Table of Contents

TABLE OF CONTENTS	2
CURRICULUM SCHEDULE	4
CHAPTER ONE	7
<i>Objective</i>	<i>7</i>
OVERVIEW	8
<i>Logging in to Broadsword</i>	<i>9</i>
<i>Types of Broadsword Users</i>	<i>11</i>
SESSION	12
<i>Default First Page.....</i>	<i>12</i>
<i>Search Sources.....</i>	<i>14</i>
<i>Search Utilities.....</i>	<i>16</i>
<i>Results Page.....</i>	<i>18</i>
<i>Source Required Data.....</i>	<i>21</i>
CHAPTER ONE QUIZ	22
CHAPTER TWO.....	23
<i>Objective:.....</i>	<i>23</i>
SEARCHING.....	24
<i>Search Tools.....</i>	<i>24</i>
<i>Query Short Form</i>	<i>25</i>
REVIEWING THE RESULTS.....	27
<i>Results as List</i>	<i>27</i>
<i>Query Advanced Form</i>	<i>29</i>
<i>Results as Map</i>	<i>32</i>
<i>Geographic Search Text.....</i>	<i>34</i>
<i>Geographic Search Map</i>	<i>36</i>
<i>Results as TimeLine</i>	<i>40</i>
CHAPTER TWO QUIZ.....	43
CHAPTER THREE.....	44
<i>Objective:.....</i>	<i>44</i>
<i>Formatted Reports</i>	<i>45</i>
<i>Shopping Cart</i>	<i>48</i>
<i>Order Status.....</i>	<i>51</i>
<i>Saved Queries</i>	<i>53</i>
<i>Update Profile.....</i>	<i>55</i>
<i>Batch Profile</i>	<i>57</i>
<i>Profile Notification</i>	<i>59</i>
CHAPTER THREE QUIZ.....	61
CHAPTER FOUR	62
<i>Objective:.....</i>	<i>62</i>
CATALOGING.....	63
<i>Cataloging New Products</i>	<i>64</i>
<i>Load NITF.....</i>	<i>66</i>
<i>Modify Data</i>	<i>68</i>
<i>Transfer Files.....</i>	<i>70</i>
<i>Catalog Status.....</i>	<i>72</i>
<i>Load IDF.....</i>	<i>73</i>

<i>Load Template</i>	77
<i>Auto Populate</i>	79
<i>Load Last Saved</i>	81
TRAINING QUESTIONNAIRE	84

Curriculum Schedule

TIME	SUBJECT
8:00	Trainer Introduction and Administrative Notes
8:10	Chapter One Overview Logging in to Broadword Types of Broadword Users Sessions Default First Page Search Sources Search Utilities Results Page Source Required Data
9:00	Break
9:10	<i>Chapter Quiz/Review</i> Chapter Two Searching Search Tools Query Short Reviewing the Results Results as List Query Advanced Results as Map
10:00	Break
10:10	Geographic Search Text (Use for Saved Query) Results as List Geographic Search Map Results as Timeline Combination Query (Geo Map w/ Adv Query) <i>Chapter Quiz/Review</i> Chapter Three Formatted Reports
11:00	Break
11:10	Shopping Cart Order Status Saved Queries Update Profile Batch Profile Profile Notification
11:40	Comment Sheets
12:00	Class Dismissed

AFTERNOON SCHEDULE

13:00	Trainer Introduction and Administrative Notes
13:10	Chapter One Overview Logging in to Broadword Types of Broadword Users Sessions Default First Page Search Sources Search Utilities Results Page Source Required Data
14:00	Break
14:10	<i>Chapter Quiz/Review</i> Chapter Two Searching Search Tools Query Short Reviewing the Results Results as List Query Advanced Results as Map
15:00	Break
15:10	Geographic Search Text (Use for Saved Query) Results as List Geographic Search Map Results as Timeline Combination Query (Geo Map w/ Adv Query) <i>Chapter Quiz/Review</i> Chapter Three Formatted Reports
16:00	Break
16:10	Shopping Cart Order Status Saved Queries Update Profile Batch Profile Profile Notification
16:40	<i>Chapter Quiz/Review, Comment Sheets</i>
15:00	Class Dismissed

CATALOGING WITH BROADSWORD

1 Hour

Chapter Four

Cataloging

Cataloging New Products

Load NITF

Modify Data

Transfer Files

Catalog Status

Load IDF

Load Template

Auto Populate

Load Last Saved

Chapter Quiz/Review

Chapter One

Objective

Students will learn what Broadword is and what it does. In addition, students will be trained how to *Log in*, *Log out*, and *Exit*, as well as select *Sources*, choose *Search Utilities* and define the *Results*. Finally, students will learn how to store usernames and passwords in Broadword for sources requiring them. Students will have a good understanding on how to set preferences to best meet their needs, and for the most efficiency in returning results.

Overview

Every day, people in organizations seek answers to complex questions. In many cases, the answers are difficult to find because they are scattered throughout various data sources. Relevant data often exists in various formats such as text, relational data, and video. It may be quite extensive, may exist on a number of platforms, and may reside across several geographical regions. How does an organization search large quantities of data to make informed decisions?

Air Force Research Laboratory, Rome Research Site has developed an innovative information integration software application called Broadsword that enables an organization to manage heterogeneous, distributed resources. With the assistance of Broadsword, an organization may tie together diverse information resources, perform intelligent searches, and visually display the results in a manner that aids and simplifies the decision making process. The Broadsword Interface features the following:

- Provides “data brokering”, auditing, and connectivity services across heterogeneous sources.
- Provides capability to add services and data sources via the use of “plug-in” interface modules.
- Employs widely accepted Internet technologies.
- Aides in the exploitation cycle by querying user’s data-space and returning pertinent data to the user.
- Uses various server operating systems to provide user access to the interface, to include CDE and CSE-SS.
- Gives the user the capability to Search for information among various data sources such as:
 - IPL, INTELINK, MIDB, and 5D, among others.
- A consistent ordering process for information, regardless of product format or delivery method.
- The ability to transfer information to the requesting client via multiple methods.

Logging in to Broadsword

To navigate to the Broadsword Welcome page the user must choose a browser. Broadsword is compatible with Internet Explorer 4.01 SP2 and Netscape 4.7 and higher on Windows platforms, and Netscape 4.7+ on Solaris platforms. In the browser, the user will enter the server name or IP address for the Gatekeeper the user has an account on. This will bring the user to the welcome page for their server.

Protected Server VERSION 3.0

AIR FORCE RESEARCH LABORATORY

Broadsword

Quick Start
User Guide
CBT
Feedback
Support
Project Broadsword
Intelink Central

Username:
Password:

This Site Has Been Accessed **61** Times
Since 20010122180249

THIS IS A DEPARTMENT OF DEFENSE (DOD) COMPUTER SYSTEM. THIS COMPUTER SYSTEM, INCLUDING ALL RELATED EQUIPMENT, NETWORKS AND NETWORK DEVICES (SPECIFICALLY INCLUDING INTERNET ACCESS), ARE PROVIDED ONLY FOR AUTHORIZED U.S. GOVERNMENT USE. DOD COMPUTER SYSTEMS MAY BE MONITORED FOR ALL LAWFUL PURPOSES, INCLUDING TO ENSURE THAT THEIR USE IS AUTHORIZED, FOR MANAGEMENT OF THE SYSTEM, TO FACILITATE PROTECTION AGAINST UNAUTHORIZED ACCESS, AND TO VERIFY SECURITY PROCEDURES, SURVIVABILITY AND OPERATIONAL SECURITY. MONITORING INCLUDES ACTIVE ATTACKS BY AUTHORIZED DOD ENTITIES TO TEST OR VERIFY THE SECURITY OF THIS SYSTEM. DURING MONITORING, INFORMATION MAY BE EXAMINED, RECORDED, COPIED, AND USED FOR AUTHORIZED PURPOSES. ALL INFORMATION, INCLUDING PERSONAL INFORMATION, PLACED ON OR SENT OVER THIS SYSTEM MAY BE MONITORED.

USE OF THIS DOD COMPUTER SYSTEM, AUTHORIZED OR UNAUTHORIZED, CONSTITUTES CONSENT TO MONITORING OF THIS SYSTEM. UNAUTHORIZED USE MAY SUBJECT YOU TO CRIMINAL PROSECUTION. EVIDENCE OF UNAUTHORIZED USE COLLECTED DURING MONITORING MAY BE USED FOR ADMINISTRATIVE, CRIMINAL OR OTHER ADVERSE ACTION. USE OF THIS SYSTEM CONSTITUTES CONSENT TO MONITORING

The Broadsword welcome page has several frames. In the top frame the server will be identified as a *Registered* or a *Protected* server. The *Protected* server requires an administrator to create a user account for the user. The *Registered* server allows the user to create a username and password for themselves, but limits the roles to *General User* with limited sources (local IPL only).

Username:
Password:

The frame on the left is the same for both servers and provides links to support features without the need to login.

- The *Quick Start* button gives a brief overview of Broadsword, i.e., the bare minimum necessary to begin using Broadsword.
- The *User Guide* provides online help to the user on how to operate the system.
- The *CBT* (Computer Based Training) button provides a demonstration on how to use each screen within the Broadsword interface.
- The *Feedback* button lets the user email suggestions to the Broadsword Lab.
- The *Support* button gives the user Point of Contact (POC) information they may contact. These POC's include the System Administrator, and the Broadsword Help Desk.
- The *Project Broadsword* button tells the user a little about Broadsword program.
- The *Intelink* button, in accordance with ISMC, is provided to connect the user to the Intelink Central Homepage.

The bottom frame contains the standard DOD security disclaimer.

The first step required to access the Broadsword Interface is to successfully login. The user will enter a username and password in the spaces provided in the right frame. See the Broadsword System Administrator (SA) to establish an account and password. After successfully logging into the Broadsword application, the user is presented with either the default first page, or the user selected page as set in preferences.

Attributes	Operator	Value
Image-Sensor Name	=	<input type="text"/>
Image-Source	=	<input type="text"/>
Image-Time of Collection	=	<input type="text"/>
Keyword-Keyword	=	<input type="text"/>
Product-Publication Date	=	<input type="text"/>
Product-Title	=	<input type="text"/>
Target Details-Country Code	=	<input type="text" value="NO SELECTION"/>
Target Details-Identifier	=	<input type="text"/>
Target Details-Name	=	<input type="text"/>

AND

Start Date	End Date
YYYYMMDDhhmmss <input type="text"/>	YYYYMMDDhhmmss <input type="text"/>

Types of Broadword Users

Broadword provides for several levels of user interaction. All users are granted access to search sources for information and/or products. A user identified as an imagery producer will be given additional privileges, which will allow them to catalog products into local IPL databases.

Broadword Administrators have the ability to control what sources a user may access. In addition, administrators have control over what roles (*General User*, *Administrator*, *ISSO*, and *Producer*) users have. The menus available to each user will be listed on the status bar on top of the Broadword screen.



While logged in, all users will have the ability to access certain menus, regardless of permissions assigned. In addition to role access, this toolbar allows access to online help or online demos to further assist with the application. Help files are viewed within a new browser window. The online demos require a Shockwave Flash Plugin to be installed. These plugins are available through the ISMC or Internet, and as a standard part of a Netscape browser install.

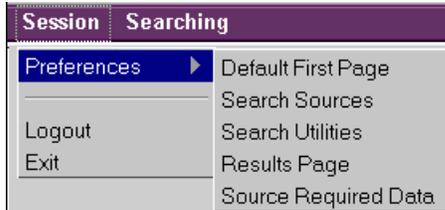
The following are the available menus dependent upon roles and permissions assigned.

- **Session:** This menu item allows the user to setup their *Preferences*, *Logout* of the system and *Exit* the system. This menu is available to all users.
- **Searching:** This menu item provides the user with the ability to *access Search Tools*, *Formatted Reports*, *Shopping Cart*, *Order Status*, *Saved Queries*, and *Profile Notification*. This menu is available to all users.
- **Cataloging:** This menu item provides the user access to catalog new items, load the last saved item, and check catalog status of items already submitted. This menu is only available to IPL producers.
- **Administration:** This menu item provides the system administrator with several tools for administering users, sources, etc. within the application. This menu is only available to system administrators and will not be covered in this training guide.
- **ISSO:** This menu item provides the site security officer with tools for conducting audits and other security functions. The menu is available only to ISSO's and will not be covered in this training guide.
- **Help:** This menu item provides the user access to the following documents: *Help*, *Demo*, *User Guide*, *CBT*, *Feedback*, *Support* and *About*. This menu is available to all users.

Each user will only have the menus available according to roles and permissions assigned by the system administrator.

Session

In *Session*, the user may set up preferences, log-out, or exit the interface.



The setting of *Preferences* is a critical step in using Broadword. Without properly configuring *Preferences*, the user's ability to search for and retrieve information will be severely limited. The user can access *Preferences* by choosing Sessions-> Preferences-> then the preference they wish to modify. These preferences are explained in detail on the following pages.

Default First Page

The *Default First Page* option allows the user to specify which screen will appear when the user first enters the interface. The *Default First Page* option is set to *Search Tools* by default. The user can access this page by selecting Session -> Preferences -> Default First Page.



The *Default First Page* consists of several radio buttons that allow the user to select a startup page. Each radio button corresponds to one page in the interface. The *Searching* pages are available to all users. *Administrators*, *ISSO* and *Producers* will have access to additional pages.

The screenshot shows a web application interface with a purple header bar containing 'Session Searching' on the left and 'Help' on the right. Below the header is a grey box labeled 'Default First Page'. The main content area is titled 'Searching' and contains a list of radio button options: 'Search Tools' (selected), 'Formatted Reports' (indented), 'IESS', 'AODB', 'MIDB', 'Shopping Cart', 'Order Status', and 'Saved Queries'. At the bottom right of the page are two buttons: 'Reset Form' and 'Apply'.

The following is a description of each page that a *General User* is able to select.

- **Search Tools:** Brings the user directly to the pre-defined search page for use against pre-defined source(s).
- **Formatted Reports:** Allows the user to generate a formatted report immediately on login. **Note:** The Formatted Report option is not available on a *Registered* server.
- **Shopping Cart:** Brings the user directly to the *Shopping Cart*, where products previously added to the shopping cart may be ordered.
- **Order Status:** Allows the user to check the status of ordered products immediately on login.
- **Saved Queries:** Allows the user to generate new *Batch* queries and *Update Profiles* from previously saved queries immediately on login.

Search Sources

Search Sources allows the user to select the sources that will be searched when they perform a query. The user can access this page by selecting Session ->Preferences -> Search Sources.

The screenshot shows a web interface for configuring search sources. At the top left, a navigation menu is open, showing 'Session' and 'Searching' options. The 'Searching' menu is expanded, with 'Search Sources' highlighted. Below this, the main interface is titled 'Where and What to Search'. It is divided into four sections: 'Sources to Search', 'Order to Search', 'Types of Information Available', and 'Query Method'. The 'Sources to Search' section has two checked items: 'Intelink-Hydra Source' and 'IPL 2.1 at Orion via Beth'. The 'Order to Search' section has two unchecked checkboxes. The 'Types of Information Available' section has two options: 'HTML Documents Only' and 'Imagery, Video, Audio, Documents'. The 'Query Method' section has two radio buttons: 'Simultaneous' (selected) and 'Sequential'. At the bottom right, there are 'Reset Form' and 'Apply' buttons. Red lines with numbers 1, 2, 3, and 4 point to the 'Sources to Search', 'Order to Search', 'Types of Information Available', and 'Reset Form' buttons respectively.

The page consists of four main sections: *Sources to Search*, *Order to Search*, *Types of Information Available*, and *Query Method*.

- 1) **Sources to Search:** Specifies sources available to the user for querying when conducting a search. **DEFAULT:** First one on the list.
- 2) **Order to Search:** The user has the option of selecting the order in which the selected

sources will be queried in a sequential search only. **DEFAULT:** The sources will be searched in the order that they appear in the list.

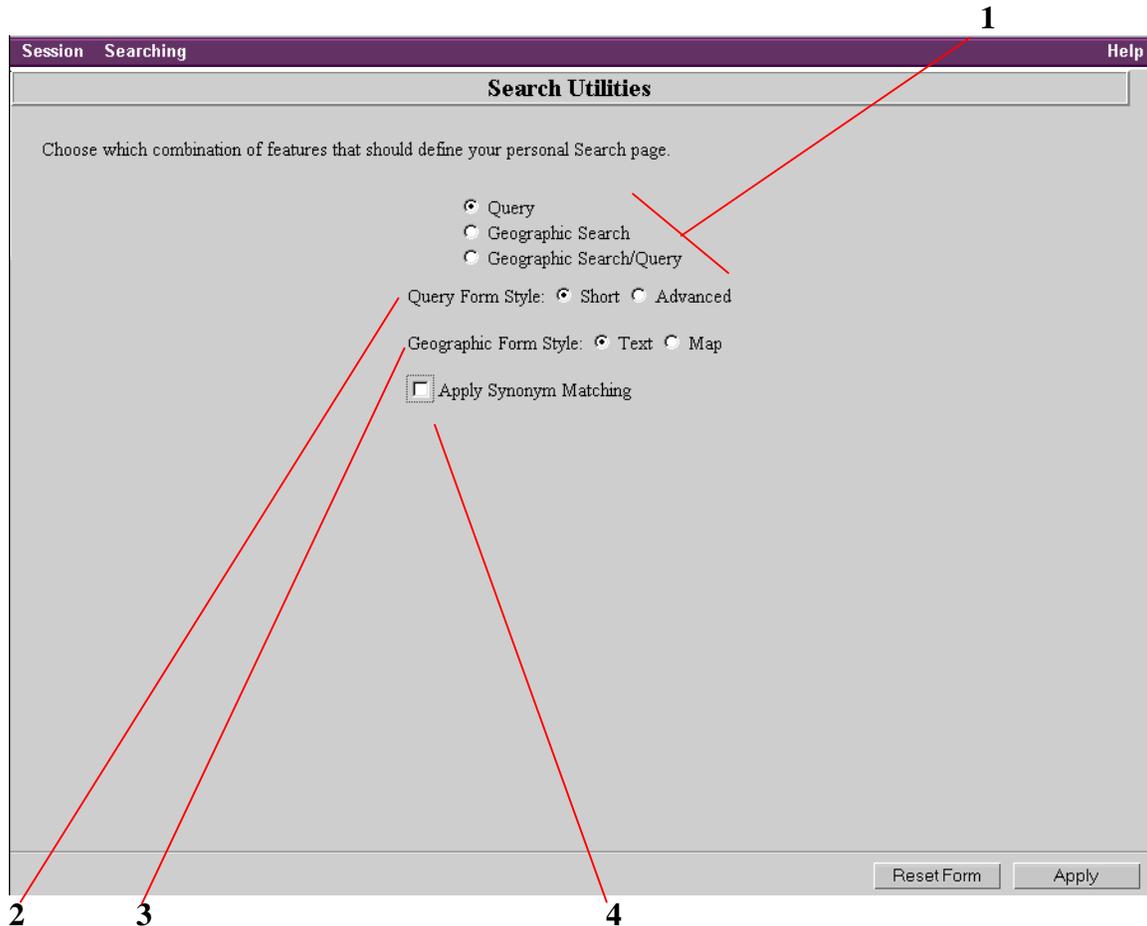
- 3) **Types of Information Available:** Describes what type of information is available from the selected source (i.e. imagery, textual documents, etc.).
- 4) **Query Method:** The *Query Method* may be *simultaneous* or *sequential*. If the user selects sequential for the *Query Method*, the sources will be searched one at a time, until a source returns one or more hits. At this point, all hits available from that source will be returned and no other sources will be queried. The *Order to Search* column identifies the order in which the search will be performed. A simultaneous search will query all sources the user has selected in parallel and join the return hits. **DEFAULT:** Simultaneous

NOTE: The sources that appear on the user's *Search Sources* will vary between user, Gatekeeper, and permissions assigned by the system administrator.

Search Utilities

This page allows the user to customize the query format that will appear on *Search Tools*.
DEFAULT: Query Short Form

The user can access the *Search Utilities* page by selecting Session -> Preferences -> Search Utilities.



- 1) **Search Type:** Specifies the type of search that will be available to the user from the *Search Tools* page. There are three possible choices:
 - *Query:* The query function allows the user to build a database query of table elements or attributes that directly access a data source. This function then returns

- a list of products and/or reports that meet the query parameters.
- *Geographic Search*: Provides the capability to search a source for a given search area. This utility supports point, circle/radius and polygon searches. The text location may be entered either in latitude and longitude or Universal Transverse Mercator (UTM).
 - *Geographic Search/Query*: Allows for the user to combine a *Query Short* or *Advanced Form* with an identified geographic location.
- 2) **Query Form Style**: Allows the user to select a style for the *Query Form*. There are two choices: *Short* or *Advanced*. **DEFAULT**: Short. These will be discussed in detail in their respective sections of the Training Guide.
 - 3) **Geographic Form Style**: Allows the user to specify how the *Geo Search* function will appear. There are two choices available: *Text* or *Map*. **DEFAULT**: Text. These will be discussed in detail in their respective sections of the Training Guide.
 - 4) **Apply Synonym Matching**: There is a disparity between many of the sources accessed via Broadsword. Some use Target ID's while others use BE Numbers for the same data in different tables within the databases. With *Synonym Matching* turned on, Broadsword is able to make a match of the attribute to the correct table, regardless of the database. The following search terms are treated as synonyms:
 - *Target Details-Identifier* = Facility BE Number
 - *Target-Country Code* = Facility-Country Code
 - *Target-Name* = Facility-Name

For example: If the user is querying against both MIDB (for facility information) and an imagery source (such as IPL), the user can cover both with one name, coordinate, or BE/Target ID.

Results Page

The *Results Page* allows the user to select which elements they wish to use in building a query. These are elements that will appear on the *Short* and *Advanced Forms* under *Search Tools*. The *Results Page* also allows the user to define which elements will be returned and displayed to the user by the sources queried. The user can access this page by selecting Session -> Preferences -> Results Page

Session Searching

- Preferences
 - Default First Page
 - Search Sources
 - Search Utilities
 - Results Page**
 - Source Required Data
- Logout
- Exit

Results Page

Number of hits displayed (in List) each time:

Maximum number of hits returned from each selected source:

Maximum size of file to "Pull to View" without a confirmation: (express in bytes. 1000000, e.g.)

Display Thumbnails: Yes No

Display Results as: List TimeLine Map

Attributes Selection Sort Returned Hits by

Associated Reports

Query Fields	Hit List		LEVEL: 1 2	
Short/Adv	<input checked="" type="checkbox"/>	Name	<input type="radio"/> L-1	<input type="radio"/> L-2
Equipment				
Query Fields				
Short/Adv	<input checked="" type="checkbox"/>	Code	<input type="radio"/> L-1	<input type="radio"/> L-2
<input type="checkbox"/>	<input type="checkbox"/>	Country Designed	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	<input type="checkbox"/>	Country Produced	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	<input type="checkbox"/>	ELINT Notation	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Nomenclature	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	<input type="checkbox"/>	Objective View	<input type="radio"/>	<input type="radio"/>

- 1) **Number of hits displayed (in List) each time:** This field allows the user to set the number of hits that are displayed on each page. It does not affect the total number of hits returned, only the number displayed at one time. **DEFAULT:** 10
- 2) **Maximum Number of Hits Returned from Each Source:** This sets the maximum number of hits that should be returned from each source after running a query. **DEFAULT:** 0 This means return all hits. **Note:** When querying one or more imagery sources, it is important to be conservative when deciding how many hits to be returned from each source. It is recommended a new user begin with no more than 10 hits returned from each source until more familiar with the time it takes for a return. Imagery uses a lot of bandwidth, and the more hits requested, the longer the query will take to return. It may even time-out before Broadsword can return the query to the user. This causes the user to lose the results of the query and a hardship on the server, which could slow it down. Another suggestion, when it is necessary to query a lot of imagery sources with a lot of hits returned, is to set up a *Batch* query discussed later in the Training Guide. This option will also allow the user to save the results from the query.
- 3) **Maximum Size of File to Pull to View without Confirmation:** This allows the user to specify the maximum size of an imagery product that will be pulled to view. If the product size is greater than the specified size, the user has the option to accept or reject the product. **DEFAULT:** No value.
- 4) **Display Thumbnails:** This allows the user to determine whether to display thumbnails of imagery products in the if available by the source queried. When *No* is selected, an image button that allows the user to pull the product will be in place of the thumbnail. If *Yes* is selected and an image is available, it will appear to the right of the metadata. It has been found that there is a substantial increase in performance if thumbnails are turned off. **DEFAULT:** Yes
- 5) **Display Results As:** This option allows the user to specify in what format to display search results. The *List* format presents the products and their associated metadata sequentially in a list in no particular order. The *Map* format presents all products with valid geographic data as an icon on a map, with the remainder presented in *List* format. The *TimeLine* format allows the user to view the data sorted chronologically. For more information on these, see the *Search Tools* section of the Training Guide. **DEFAULT:** List
- 6) **Query Fields:** Selected fields will appear on the *Short* and *Advanced* forms to be filled with values for query execution. However, if an element is not supported as queryable by any of the sources the user has selected in Session -> Preferences -> Search Sources, it will not appear on the query form under *Search Tools*, even if it has been selected in *Query Fields*. Similarly, if an element, which is selected in the *Hit List* column has no data in the table, it will not be returned.

- 7) **Hit List:** Selected items will be returned in the results of a query. Items will only be returned if supported by the source queried, and available. If the *Toggle all Hits On* option is selected at the bottom of the *Results Page*, all metadata available for each hit will be returned.
- 8) **Broadword Supported Attributes:** Each attribute has a hyperlink and when selected, the user can see a detailed description of the attribute. The user may also see what source the attribute maps to or is available from.
- 9) **Sort Returned Hits by:** This section allows the user to perform a multi-layered sort. This means that the user has the ability to sort the Hit List by two attributes. The fields chosen will sort the hits returned from a search. **DEFAULT:** As Is (not sorted) **Example:** the user could perform a *Layer 1* sort on *Equipment - Allegiance*, and a *Layer 2* sort on *Equipment – Country Code*. In this case, each hit returned would be *displayed first according to Allegiance and then according to Country Code*. **Note:** If *Layer 1* is set to As Is, then *Layer 2* is not used.

Bottom Buttons:

- **Apply:** Submits the changes the user has made.
- **Toggle All Hit List On:** Sets the *Hit List* check box to checked for all *Attributes*, meaning that all available metadata per hit will be returned and displayed to the user.
- **Reset Defaults:** Restores the page to its original default settings.
- **Reset:** Returns the page to the settings last applied to the page.

Source Required Data

Sources will be listed if they require a separate username and password for some or all of their functionality. For instance, IPL requires a separate username and password for cataloging, CSIL requires a username and password to receive products, and AMHS requires a user name and password for any functionality. Here the user will store usernames and passwords for the listed sources. The user can access this page by selecting Session -> Preferences -> Source Required Data.



Sources Requiring a Separate Username & Password						
IPL 1.0 at Sun via Saturn	Username :	<input type="text" value="ipamngr"/>	Password :	<input type="password" value="*****"/>	Required for :	cataloging
AMHS at Elara via Saturn	Username :	<input type="text"/>	Password :	<input type="password"/>	Required for :	querying, products
CSIL at DIA via Saturn	Username :	<input type="text"/>	Password :	<input type="password"/>	Required for :	products
IPL 1.0 at Titan	Username :	<input type="text" value="ipamngr"/>	Password :	<input type="password" value="*****"/>	Required for :	cataloging
ISM Via Saturn	Username :	<input type="text"/>	Password :	<input type="password"/>	Required for :	querying, products
IPL 1.0 Source	Username :	<input type="text" value="ipamngr"/>	Password :	<input type="password" value="*****"/>	Required for :	cataloging
IET at Europa via Saturn	Username :	<input type="text"/>	Password :	<input type="password"/>	Required for :	querying, products
AMHS 3.6 At Atlas via Saturn Baseline	Username :	<input type="text"/>	Password :	<input type="password"/>	Required for :	querying, products

Chapter One Quiz

Circle the appropriate answer below the question.

- 1) It is okay to 'X' out of the browser, rather than to use Broadsword's Logout or Exit menu items under Session.
Always Sometimes Never
- 2) The student may define the Default First Page according to privileges assigned. (p.11)
True False
- 3) Which query allows the student to query multiple databases at the same time? (p.14)
Sequential Simultaneous
- 4) On the Search Utilities screen, it is best to keep Synonym Matching selected. (p.16)
True False
- 5) It is possible to combine a Geographic search with a Query search. (p.16)
True False
- 6) On the Results Page, each attribute is hyperlinked to provide in-depth detail concerning that attribute? (p.17-19)
True False
- 7) All attributes are supported query elements for all intelligence and operations databases. (p.17-19)
True False
- 8) The student may use their Broadsword Username and Password to access other databases through Source Required Data. (p.20)
True False

Comments on this Chapter:

Chapter Two

Objective:

Students will learn how to use *Short*, *Advanced*, *Geographic*, and combination forms for searching. They will learn how to read and understand returned results. In addition, they will gain an understanding of how results may be returned in a *List*, *TimeLine*, or *Map* format, and the benefits of each. Finally, they will learn how to manipulate the results once they have received them, whether they cut and paste, copy, or order products.

Searching

Searching allows the user to execute query parameters as selected in *Preferences*. In addition, the user may order products, save queries, review query results, and check on the status of ordered products.



Search Tools

The *Search Tools* function provides the query form, as defined by the user *Preferences*. This function allows the user to build data source searches, execute them, and retrieve a list of products that meet the search criteria. The user may access *Search Tools* by selecting Searching-> Search Tools.



There are four forms for searching, which may be used separately, or in conjunction.

1. *Query Short*
2. *Query Advanced*
3. *Geo Text*
4. *Geo Map*

Once the user has performed one of these searches, the hits are displayed on a separately launched *Results Page*.

Query Short Form

The *Query Short Form* provides the ability to build a query using a predefined selection of table elements (as configured in the *Results Page* section under *Preferences*) and selectable logical operators. Each row on the form represents a clause that will be part of the query. Populating the value field, and selecting an appropriate operator for each element to be used creates a query. The selected value fields will be ANDed together to form the query. The number of form elements the user completes will determine the complexity of the query. As a minimum, the user must supply one table element value to create a valid query.

The screenshot shows the 'Query (Short Form)' interface. At the top, there is a navigation menu with 'Session' and 'Searching' tabs. Below this is a list of search tools: 'Search Tools', 'Formatted Reports', 'Shopping Cart', 'Order Status', 'Saved Queries', and 'Profile Notification'. The main form area is titled 'Query (Short Form)' and contains a table with columns 'Attributes', 'Operator', and 'Value'. The 'Attributes' column lists various fields like 'Image-Sensor Name', 'Image-Source', etc. The 'Operator' column has dropdown menus with '=' as the selected operator. The 'Value' column has input fields, with one containing 'NO SELECTION'. Below the table is an 'AND' dropdown menu. At the bottom, there are 'Start Date' and 'End Date' fields with a date format 'YYYYMMDDhhmmss'. At the very bottom, there are three buttons: 'Reset Form', 'Save Query', and 'Search'. Red callout lines point to specific parts: '1' points to the 'Attributes' column header, '2' points to the 'Operator' dropdown, '3' points to the 'Value' column header, and '4' points to the 'Start Date' field.

Attributes	Operator	Value
Image-Sensor Name	=	
Image-Source	=	
Image-Time of Collection	=	
Keyword-Keyword	=	
Product-Publication Date	=	
Product-Title	=	
Target-Details-Country Code	=	NO SELECTION
Target-Details-Identifier	=	
Target-Details-Name	=	

AND

Start Date	End Date
YYYYMMDDhhmmss	YYYYMMDDhhmmss

Reset Form Save Query Search

The *Query Short Form* consists of several sections and they are described below.

- 1) **Attributes:** For a detailed description about an attribute, select on the attribute name in the interface. An attribute that has a "*" next to it indicates that it is common to the selected sources. If only one source type is selected then all queryable attribute for that source are listed without a "*". If it is not common to the selected sources, the query will be blocked by the source that is not supported and will proceed to query with the sources that are.
- 2) **Operator:** Contains a pull down menu for selecting the Comparison Operator to be used for each attribute in the query. The available comparison operators are: = (equal to), <> (not equal to), > (greater than), < (less than), Like, and Not Like. Each operator has a different affect on the results of the query. The operators Like and Not Like are not available if the attribute to be selected is associated with a scroll menu (e.g. - Security Classification or Country Codes). **DEFAULT:** = (equal to)
- 3) **Value:** The attribute value to be searched for should be entered into this text box, or picked from a select box. Valid search value formats include alphabetic, numeric, and date-time. The format used is dependent on the attribute name.
- 4) **Date Range:** At the bottom of the *Short Query Form* are start and end date-time fields for querying across a date time range. It is not necessary to use this field for a valid query. The format for a date-time field is YYYYMMDDhhmmss in Zulu time. The date-time range is ANDed together with other query elements. If this field is not used, the default is to check all dates available within the database. **Note:** The date-time range values are mapped as Publication Date elements.

Queries may include wildcard characters (@, #, ?, and *) in the value field as defined in the DoD HCI Style Guide. The name and meaning of each wildcard is shown below:

Wildcard Character	Wildcard Name	Meaning
@	At sign	Replace any single alphabetic character (a-z and A-Z)
#	Pound sign	Replace any single numeric character (0-9)
?	Question mark	Replace any single alphanumeric character (a-z, A-Z, 0-9, and punctuation marks)
*	Asterisk	Replace zero or more alphanumeric characters

Note: Using "=" operator and "*" wildcard character automatically converts the "=" to the "like" operator.

Reviewing the Results

Once the user has set the parameters for the query, the user must select *Search* to execute the query. After depressing the *Search* button, the query will be sent to the selected data sources. Results of the query will be displayed as soon as the query is completed. This may take from seconds to minutes depending upon the parameters of the query, the sources selected, and available network bandwidth. It is not abnormal for the browser to indicate that it has stalled while running a query. The results of the query will be displayed on a separately launched *Results* page. There are three types of *Results* pages: *list*, *time line*, and *map*.

Results as List

A large amount of information is displayed on each *Results* page. The way the results are displayed may be configured in *Preferences*.

The screenshot displays a web interface for search results. At the top, a purple header bar contains the text "Results of Request" and a "Help" link (labeled 5). Below this is a teal bar with the text "Title/Description (Hits: 1 - 30)" (labeled 1), "Products/Reports Available" (labeled 4), and "Add to Cart" (labeled 5). The main content area shows a single result with a green title bar: "SAN_DIE_1 CONTAINS AN IMAGE OF SAN DIE WITH GEODETIC DATA, A PRC,IMB & TGAjite" (labeled 2) and a hit number "1" (labeled 3). Below the title bar is a thumbnail image of a satellite view of San Diego. Underneath the thumbnail is a "Thumbnail Details" section with fields like File Number, Image Number, and Thumbnail Format. Below that is a "Target Details Details (Record 1)" section with fields like Category, Country Code, File Number, Datum, Percent Coverage, Geographic Coordinates, Name, UTM Coordinates, and Image Number. At the bottom, there is a "Target Details Details (Record 2)" section with similar fields. At the very bottom of the page are buttons for "Reset Form", "Add All to Cart", and "Add to Cart".

- 1) The **column header** shows the total number of hits.
- 2) The **Title Bar** contains the title of the product, the source it came from, the hit number in the *Hit List*, and its color indicates the classification of the hit.

- 3) The **Details** section contains all of the metadata requested for a given product. The metadata returned is limited by what is available from each source, as well as what is selected in *Preferences*. In *Preferences*, if *Toggle all Hits On* was selected, all available metadata will be returned.
- 4) The **Products/Reports Available** column provides link(s) to products that are available online. It also provides anchors for any available reports or thumbnails if available and was requested through *Preferences*.
- 5) The **Add to Cart** column may include a checkbox to place an item (image, text, etc.) into the *Shopping Cart* for ordering. The *Shopping Cart* is used to order products for delivery to another system via File Transfer Protocol (FTP). The *Shopping Cart* will be described in more detail, later in this Training Guide.



The bottom section of each *Results* page displays the total number of hits returned from each source queried. It shows the query string used to create the query, and detailed information if there was a problem with the source. A result of '0 Hits' indicates a query performed properly and successfully, however, the source had no data matching the query request parameters. Finally, if there are more hits than requested per page, the *goto* button will appear, allowing the user the start hits at a particular point, or to go to the next available page of its.

Query Advanced Form

The *Query Advanced Form* allows the user build a query composed of up to six search conditions, or clauses, connected by the Boolean logical operators AND and OR. The *Query Advanced Form* allows the construction of a more complex query than does the *Query Short Form*. Using the *Query Advanced Form* with the OR operator the user may specify multiple search criteria for one table attribute. The AND operators are read before the OR operators. The logical operators AND and OR are read from left to right. The user must specify the appropriate table attribute, enter a value in the boxes provided and select operators to build a desired query. The number of attribute values the user enters will determine the complexity of the query. At a minimum, the user must complete one row to create a valid query.



The screenshot shows the 'Query (Advanced Form)' interface. At the top, there is a purple header bar with 'Session Searching' and 'Help'. Below the header, the title 'Query (Advanced Form)' is centered. The main area contains a table with four columns: 'Attributes', 'Operator', 'Value', and 'Link'. Each row in the table has a dropdown menu for 'Attributes' (all set to 'NO SELECTION'), a dropdown for 'Operator' (all set to '='), an empty text input for 'Value', and a dropdown for 'Link' (all set to 'DONE'). Below the table is a dropdown menu for logical operators, currently set to 'AND'. At the bottom of the form, there are two date input fields: 'Start Date' and 'End Date', both with a format of 'YYYYMMDDhhmmss' and empty text boxes. At the very bottom, there are three buttons: 'Reset Form', 'Save Query', and 'Search'.

Numbered callouts in the image point to the following elements:

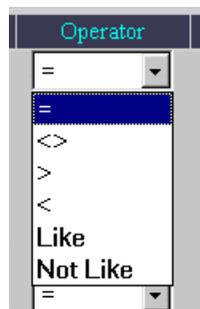
- 1: Points to the 'Searching' tab in the header.
- 2: Points to the 'Operator' column header.
- 3: Points to the 'Value' column header.
- 4: Points to the 'Link' column header.

The *Query Advanced Form* consists of several sections and they are described below.

- 1) **Attributes:** Rows not used in the query should have the *Attributes* field set to the default NO SELECTION. This ensures the query is submitted and executed properly. The key difference between the *Query Short* and *Query Advanced Forms* lies in the fact a user may select the same attribute several times. For instance, in the *Query Short Form*, the user may only query against one BE Number. However, in the *Query Advanced Form*, the user may selected several fields to represent the BE Number, which then may be tied together using the AND or OR links. An attribute with "*" next to it indicates it is common to all selected sources. If only one source type is selected, all queryable attributes for that source are listed without a "*". If the attribute is not common to the selected sources, the query will be blocked by the source that is not supported and will proceed to query with the sources that are.



- 2) **Operator:** Contains a pull down menu for selecting the Comparison Operator to be used for each attribute in the query. The available comparison operators are: = (equal to), <> (not equal to), > (greater than), < (less than), Like, and Not Like. Each operator has a different affect on the results of the query. The operators Like and Not Like are not available if the attribute to be selected is associated with a scroll menu (e.g. - Security Classification or Country Codes). **DEFAULT:** = (equal to)

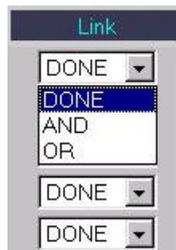


- 3) **Value:** This section contains a text box for each attribute used in the query. The value is entered into this text box, and may include alphabetic, numeric, alphanumeric and date-time formats. The format used is dependent on the attribute.

Queries may include wildcard characters (@, #, ?, and *) in the value field as defined in the DoD HCI Style Guide. The name and meaning of each wildcard is shown below:

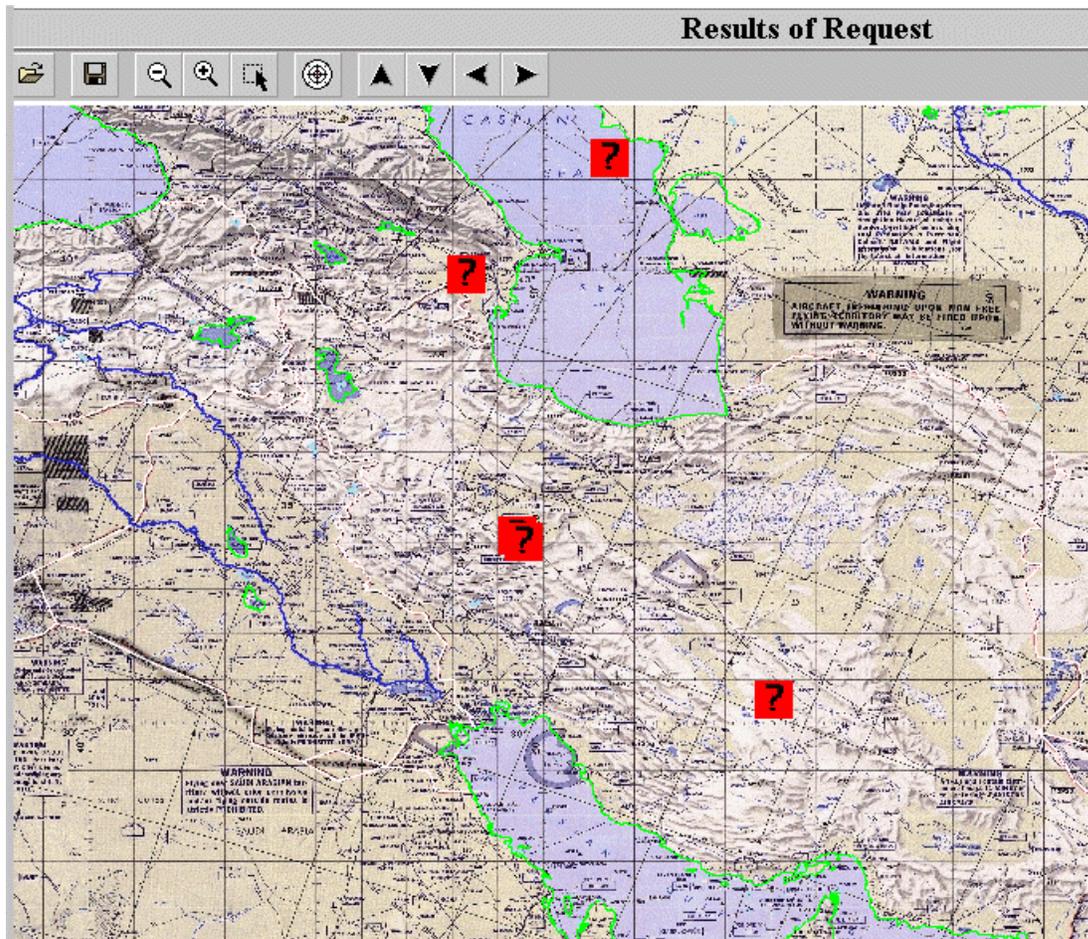
Wildcard Character	Wildcard Name	Meaning
@	At sign	Replace any single alphabetic character (a-z and A-Z)
#	Pound sign	Replace any single numeric character (0-9)
?	Question mark	Replace any single alphanumeric character (a-z, A-Z, 0-9, and punctuation marks)
*	Asterisk	Replace zero or more alphanumeric characters

- 4) **Link:** The *Link* column contains pull-down menus from which the user may select an AND or OR logical operator to join one search clause to the next. If a query is to contain more than attribute value, an OR or AND operator must be selected to join one search clause to the next. The last search clause in the query should have its Boolean operator field set to DONE. The AND operators are read before the OR operators. Both types of logical operators are read from left to right. This will ensure that the query will execute properly.



Results as Map

The *Map* may be split up into two or three sections, depending on the results returned from the source. After selecting the *Search* button, the hits of the query request that contain geographic coordinates will be displayed as icons on a map. Any hits returned without geographic data will be displayed below the map displayed in list form.



On the map, icons will appear representing hits returned. Multiple hits that are very close together may appear as the same icon. The user may either place the mouse pointer over the icons to display a list of results, or select an icon to open another window. This will display the metadata requested for the hits covered by a given icon. It is suggested that the user zoom in on any icons they wish to retrieve metadata from, to prevent hiding some of the results.

Hits without geographic data returned from Broadword will be displayed in list format below the map. In addition, any products that fall outside defined search area the user zooms into will be added to this list.

Help

Unable to display on map
 The following hits do not contain a target coordinate. Therefore, they can not be displayed on the map.

Title/Description (Hits: 1, 3 - 7, 9 - 21, 24 - 39, 42 - 43, 46 - 48, 50 - 57, 60, 63, 69 - 75, 77 - 78)	Products/Reports Available	Add to Cart
1 13_nitf1inc08 IPLTESTPRODUCT [IPL 2.5 at Ariel via Beth]	 (Unrecognized Product Format)	<input type="checkbox"/>
Product Details Title 13_nitf1inc08 IPLTESTPRODUCT Publication Date 19960728130000 Product: Security Information Details Classification Unclassified		
3 01_nitf20jpeg08 IPLTESTPRODUCT [IPL 2.5 at Ariel via Beth]	 Thumbnail Unavailable	<input type="checkbox"/>
Target Details Details (Record 1) Identifier TGT1PRIME_BE Target Details Details (Record 2) Identifier TGT2PRIME_BE Target Details Details (Record 3) Identifier PRIME_BE1234567 Product Details Title 01_nitf20jpeg08 IPLTESTPRODUCT		

Below the results displayed in list format, there is a summary of the products listing each of the sources, any problems with the request against any of the sources, and the number of hits each source returned.

QUERY: PRD.CLASS = "U" and TGT.CC = "IZ"	
Source	Query Status
TOTAL HITS	13
IPL 1.0 at Titan via Beth(IPL)	3 Hits
IPL 1.0 at Sun via Beth(IPL)	10 Hits
<input type="button" value="Reset Form"/> <input type="button" value="Add All to Cart"/> <input type="button" value="Add to Cart"/>	

Geographic Search Text

The *Geographic Search Utility* provides the capability to search the system's sources for information that falls within a user-defined geographical or spatial area. This utility supports point, circle/radius, and polygon searches. The type of search is determined by which fields have been populated on the form.



1

2

Session Searching Help

Geographic Search (Text)

Select Table(s) to be Searched:

Target Details Image

Location

1: Meters

2:

3:

4:

5:

6:

Coordinate Format: ddmmsNdddmmssW

LEGEND

For Point search: Use only the 1st cell

For Circle search: also specify radius cell

For Polygon search: Enter at least 3 location coordinates

AND

Start Date End Date

YYYYMMDDhhmmss YYYYMMDDhhmmss

Reset Form Save Query Search

This interface provides complete functionality through a pure text interface using latitude and longitude, or UTM coordinates.

- 1) **Select Table(s) to be Searched:** These buttons are used to indicate which tables will be searched for information. The tables listed will vary depending on which

databases have been chosen to query against in *Preferences*.

- 2) **Location:** These fields are used for entering coordinates to be used in the search. Locations may be entered using latitude, longitude or UTM coordinates. lat/long coordinates are entered into the *Location* text box on the form in a 15 character alphanumeric string as follows:

```
|---Lat---|---Long---|  
ddmmsshdddmmssh
```

For example: 33 degrees, 41 minutes, 10 seconds north, by 117 degrees, 44 minutes, 00 seconds west would be entered as: **334110N1174400W**.

UTM coordinates are also entered in a 15 character alphanumeric string in the same *Location* box as follows: two numeric characters and one alpha character representing the grid zone designation, followed by two alpha characters representing the 100,000 meter square, followed by five easting numerics and five northing numerics.

For example the grid zone 11S; the 100,000 meter square; easting 31310, northing 27754 would be entered as: **11SMT3131027754**.

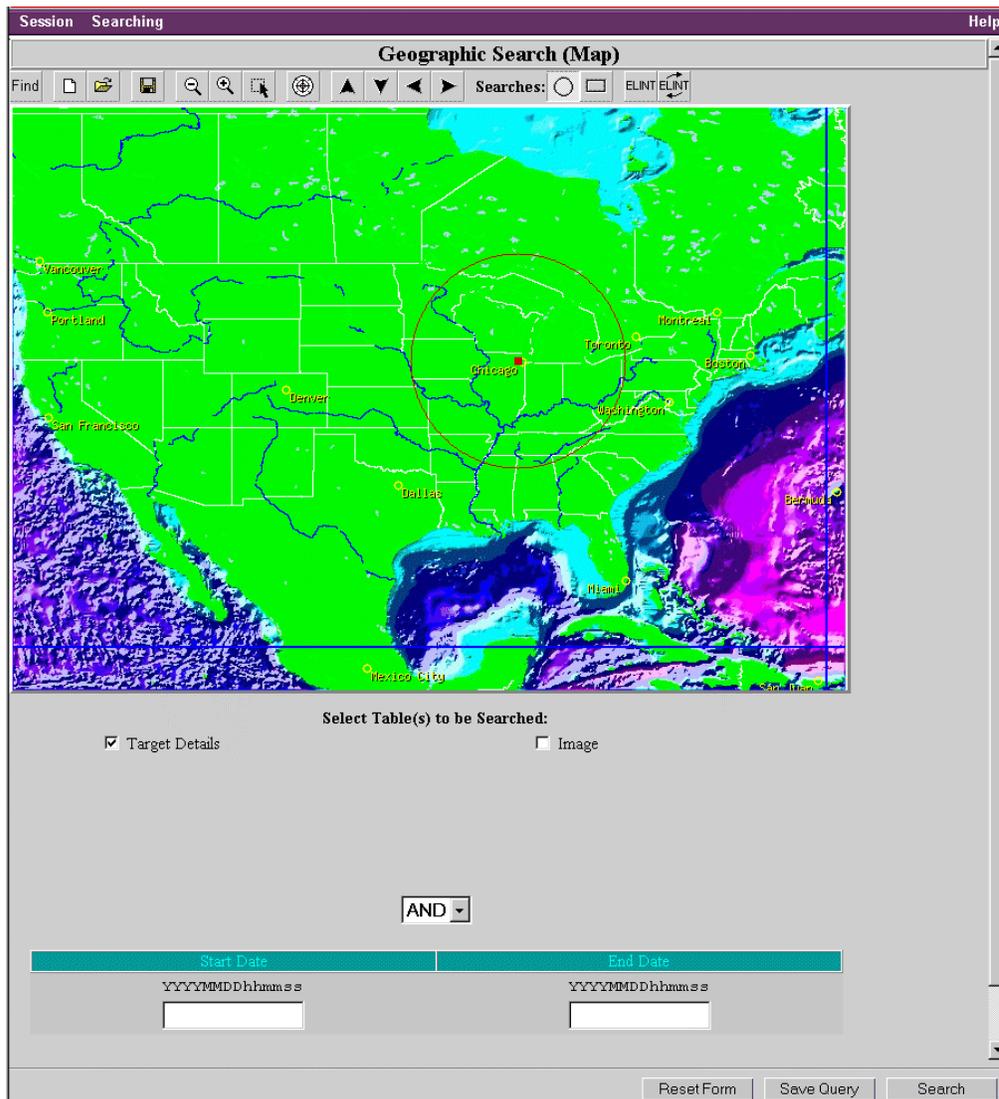
The type of search performed (point, circle, or polygon) depends on which fields have data entered and the sources selected for searching.

A point search will be performed if a search value is entered into the first *Location* cell. A circle search will be performed if a value is entered into the first *Location* cell and a value is entered into the *Radius* cell. A pull-down menu in the Unit column is used to select the meter or nautical mile units used for the radius value. A radius in meters must be an integer with an allowable range of 1 - 99,999 meters. A radius in nautical miles may be an integer or a decimal value with an allowable range of 0.0 - 53.99 nautical miles.

When at least three values are entered in the *Location* cells, a polygon search will be performed. **Note:** For a polygon search, the first point entered should be the upper-left coordinate. The subsequent points should be entered in a clock-wise orientation.

Geographic Search Map

The Broadword map feature uses CDADR maps, as well as available CIB information as loaded on the Broadword Gatekeeper. The *Geo Search Map Form* allows the user to define a search area graphically and request metadata on products found within it. It also allows the user to attach a date range to the query.



When the *Geo Search Map Form* is first loaded, it provides the user with a low-resolution view of the United States. As the user zooms in, more map data will appear as available. The user may manipulate the map displayed by the several buttons across the top of the map frame.

Map Features:



Find:

Find Find allows the user to search for an airport and/or foreign place name. A user may also limit this search to a specific country by selecting the country code. Once the user selects the airport or place name, the map will re-center and zoom in on the area selected.





Creating a bookmark:



To save a bookmark, the user must select on the *Save Bookmark* button. Once the Save Bookmark button has been selected, the user will see a Save dialog box. The dialog box allows the user to give the bookmark a name for future retrieval.

Retrieving bookmarks:



To retrieve a saved bookmark the user must select the *Bookmark* button. The *Bookmark* button will open another window that displays all previously saved bookmarks. To activate a bookmark, select on a bookmark name. Once the name has been selected, the map window will reposition itself to the bookmarked location. The user may also delete one or more bookmark(s) by selecting one or more checkboxes and the *Delete Marked Items* button. To set a bookmark to be the default map shown when the page is loaded select the *Default Map* radio button and the *Set Default Map* button.

Download map image:



This button opens another window with just the map displayed without controls. This allows the map to be saved as a JPEG (.jpg) file from within the browser window for easy import into briefings and slide shows. A download file as HTML option is given if the user is using Internet Explorer.

Zooming:



To zoom in on the map area, select the *Plus* symbol. This halves the latitude and longitude displayed. To zoom back out, just select on the *Minus* sign. This doubles the latitude and longitude displayed. The *Rectangle Area* button allows the user to draw a

rectangle on the map to define an area to zoom into. Select on the map at diagonally opposite corners of the area in question and the map will reload, covering the selected area at the highest zoom able to display the area in question.

Re-center:



By selecting this button then selecting on the map, the user may re-center the map on the point selected on the map.

Panning:



Panning allows the user to navigate around the map. Once the navigation button is selected, the map will navigate N, S, E, or W.

Searching:



The user may limit the results returned in a circle search by selecting a center point, and extending out a radius. The rectangle button allows the user to draw a rectangular area to request hits in.

Elint:

The user may turn on the Elint capability for the broadcast Elint to be displayed on refresh. This is only available if the user has Elint as a local source.

Note: As several of these functions pop up in separate windows, they may become hidden behind the main Broadsword window. Simply minimize the main Broadsword window, move the secondary window to one side or the other, and restore the main Broadsword window. **Warning:** Do NOT resize the main Broadsword window at any time after logging in.

Results as TimeLine

The *Results as a Timeline* is separated into columns and rows. Columns are in chronological order from left to right. Further manipulation of dates is accomplished using the timeline control window, which is explained in detail below. Each hit contains a *Display Details* link to retrieve metadata about the product.

1998	1999	2000
	<input type="checkbox"/> (U)99X0503 [IPL 2.1 at Orion via Beth]  Display Details	<input type="checkbox"/> (U)test_ip121_21800_1 [IPL 2.1 at Orion via Beth]  Display Details
	<input type="checkbox"/> (U)99X0503 [IPL 2.1 at Orion via Beth]  Display Details	<input checked="" type="checkbox"/> (U)test_ip121_21800_2 [IPL 2.1 at Orion via Beth]  Display Details
	<input type="checkbox"/> (U)99X0503 [5D at Titan via Beth]  Display Details	<input type="checkbox"/> (U)test_ip121_21800_3 [IPL 2.1 at Orion via Beth]  Display Details
	<input type="checkbox"/> (U)12_nitf21nc24 IPLTESTPRODUCT [IPL 2.5 at Ariel via Beth]  Display Details	<input type="checkbox"/> (U)test_ip121_21800_4 [IPL 2.1 at Orion via Beth]  Display Details
	<input type="checkbox"/> (U)nitf2jpeg8bit	<input type="checkbox"/> (U)test SR-71 tiff

Hits also contain thumbnails if available from the source and requested in *Preferences*. To the left of the thumbnail or anchor is a checkbox for selecting products for ordering. If a thumbnail was not requested, an anchor will be provided, allowing the user to pull the image to view. Images may be pulled *As Is* or *As JPEG*.

Products/Reports Available

 **Thumbnail Not Available**

Pull Image

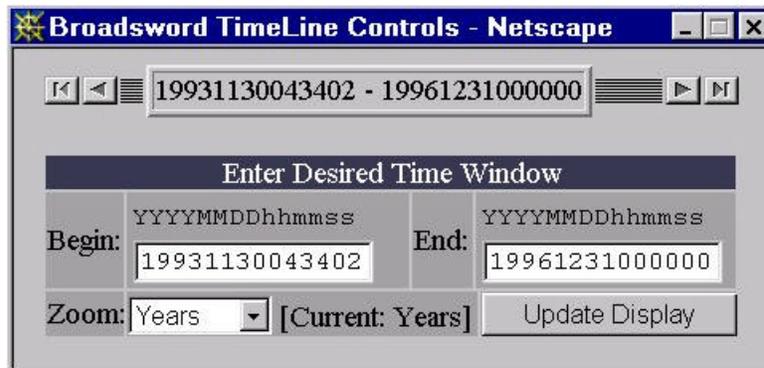
[As Is](#)

[As JPEG](#)

The bottom section of each *Results* page displays the total number of hits returned from each source queried. It shows the query string used to create the query, and detailed information if there was a problem with the source. A result of '0 Hits' indicates a query performed properly and successfully, however, the source had no data matching the query request parameters.

QUERY: PRD.CLASS = "U"	
Source	Query Status
TOTAL HITS	78
IESS at Iess0 via Beth(IESS)	Unsupported Query Element: PRD.CLASS
AODB at Juliet via Beth(AODB)	AODB at Juliet via Beth : Unsupported Query Element: PRD.CLASS
MIDB Othello at Hoth via Beth (MIDB)	MIDB Othello at Hoth via Beth : Unsupported Query Element: PRD.CLASS
5D at Titan via Beth(5D)	3 Hits

Timeline control window: The timeline control function will appear in a separate window. This window allows the user to set a new date-time group setting for further quantifying the current set of products.



There is a small window displayed between  and  which shows the current date/time range displayed. If this is less than the date/time range between the first and last products chronologically, horizontal bars will be on either side of the date/time range displayed window. The length of bars reflect the relative position of the current date/time range displayed in the whole date/time range between the first and last products.

The 'Auto' choice of the *Zoom* function on the timeline control window zooms based on the *Begin* and *End* fields. Example: If *Begin* is 1993 Oct 01, 01:00 and *End* is 1993 Nov 16, 01:00 the *Zoom* factor will actually be 1 month and 15 days. The user is limited to the date range of the first and last products in the *Hit List*. If a user selects outside the date range, Broadsword will default to the beginning or end of the date range as applicable.



Moves the time period currently displayed to the beginning of the time zone containing hits.



Moves the time period currently displayed incrementally as determined by the 'zoom' factor earlier (see *Zoom*, below).



Moves the time period currently displayed incrementally as determined by the one 'zoom' factor later (see *Zoom*, below).



Moves the time period currently displayed to the end of the time zone containing hits.

Begin: This field shows the first time currently displayed. It may be edited by the user to change the time period currently being displayed.

End: This field shows the last date currently displayed. It may be edited by the user to change the time period currently being displayed.

Zoom: This field can change the 'zoom' on the time frame. It has a drop box containing several commonly used time frames for viewing information. Choices include *Year*, *Month*, *Week*, *Day* and *Hour*.

Update Display

If the user chooses to utilize the *Begin*, *End* or *Zoom* functions, they must select for the *Results* to refresh.

Chapter Two Quiz

Please answer the following questions. Where answers are provided below the question, please circle the best answer.

- 1) There are several search utility forms used for searching. Name three. (p.23)
 - _____
 - _____
 - _____
- 2) An attribute annotated with an * denotes it is common among all selected sources. (p.25)

True False
- 3) There are how many available wild card characters? (p.25)

1 2 3 4
- 4) All searches may be combined with a date range for a specific time period. (p.25)

True False
- 5) Results will be displayed in a separate window. (p.26)

True False
- 6) Which format(s) can results be returned? (p.26)

List TimeLine Map All
- 7) At the bottom of the Results screen, there is a table listing the total hits returned from each source. A return of zero (0) hits means the query was successful. (p.27)

True False
- 8) In the Advanced search, an attribute may be selected more than once, whereas in the Short search, it may only be selected once. (p.29)

True False
- 9) Also in the Advanced search, the Link after the last value entered must read what for a valid query? (p.30)

And Or Done
- 10) Thumbnails may be selected to load the following way(s). (p.39)

As Is As JPEG Both Neither
- 11) You must have coordinates entered in at least _____ Location cell(s) for a valid search using the Geographic Text query. (p.33)

1 2 3 4 5 6

Comments on this Chapter:

Chapter Three

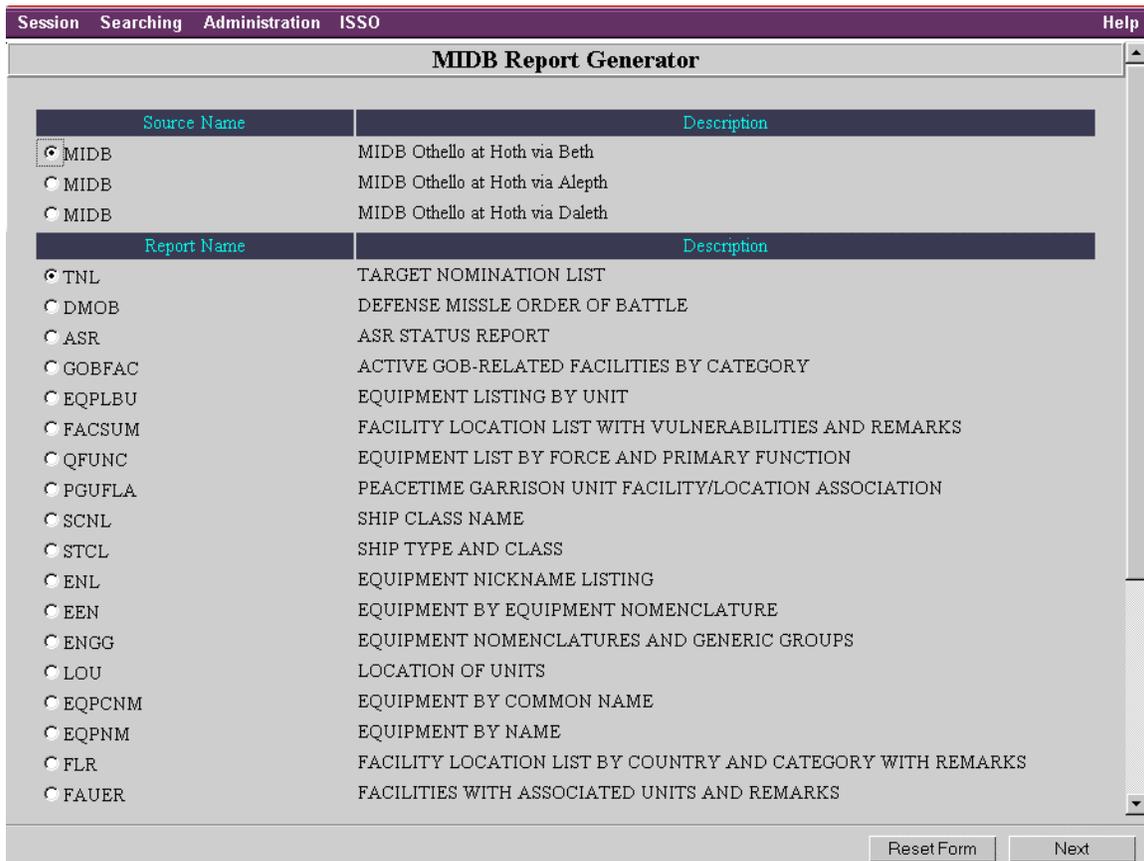
Objective:

In *Chapter Three*, the student will learn the remainder of the *General User* functions. They will learn how and when to use *Formatted Reports*. In addition, they will become familiar with the *Shopping Cart*, *Order Status* and *Saved Queries* functions of Broadword. Each student will learn how to set up both *Update* and *Batch Profiles*, as well as how to use *Profile Notification*.

Formatted Reports

The *Formatted Reports* function gives the user the ability to generate a report based on various characteristics, and send the results to a selected destination. This function is only available for IESS, AODB, and MIDB. The type of sources available to the user will be specific to your site and determined by your system administrator.

Specify the parameters of the report to be generated, first, by selecting one of the sources listed. This will launch the *Report Generator*. The purpose of the *Report Generator* is to allow a user to generate a standard report. The user can access this page by selecting: Searching -> Formatted Reports -> [source].



Once the *Report Generator* is launched, the user will select the database and the report to

be generated from lists provided. Once selected, select the *Next* button to continue.

Session Searching Administration ISSO Help

datasource: MIDB Othello at Hoth via Beth; report: TNL;

Filters

Target List: Type

Target List: Name

Format	Description
<input checked="" type="radio"/> TEXT	ASCII TEXT
<input type="radio"/> HTML	HYPER TEXT MARKUP LANGUAGE
<input type="radio"/> XML	EXTENSIBLE MARKUP LANGUAGE

Extension

Without Extension:

Destination List And Filename

Destination List:

Enable	Login Name	Password	Host Name or IP Address	Path
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Destination Filename:

Reset Form Request File Request View

The information requested on this screen is necessary to finish generating a standard report. This screen is divided into several sections.

- **Filters:** A list of filters the user may use to limit the coverage of the report, therefore only accessing information useful to the user. This list is base on the type of report being generated.
- **Format:** Next, the user may select the format for the *Report* to be generated in.
- **Extension:** Some reports come back with the extension of .01.01. If the user would prefer to have the report come back without an extension, select *Y*.
- **Destination List and Filename:** This section contains the Destination List for locations to send the generated report via FTP. It is possible to send the same report to five destinations. For each destination row, the user must enter a *Login Name* and *Password* for the destination machine, the *IP* or *Host Name* of that machine, and the *Path* to which the user wants the report sent. For example, if the user is using their Broadword home directory to send their report, they would enter their username, password, IP, and the following path: export/home/<username>. **Note:** the user must have an account on a machine that has FTP server loaded. The Broadword

Gatekeeper has FTP server loaded, and in most cases, each user is automatically given a home directory on the Broadsword Gatekeeper. Ask your system administrator for more details. After entering destination information, the user must name the file in the *Destination Filename* box. **Note:** it is not necessary to fill in the *Destination List and Filename* section if selecting *Request View*.

After entering all the necessary information, the user may either *Request File*, or *Request View*. *Request File* will send the report to the enabled destinations in the destination list. *Request View* will return the report to the user in a new browser window.

Shopping Cart

The *Shopping Cart* allows the user to order a set of selected products. Items may be added to the *Shopping Cart* through the *Results* page and will be retained until they are ordered. The *Shopping Cart* standardizes the ordering process by providing a single user interface to the various ordering methods of the sources Broadword interfaces with.

The user can access the *Shopping Cart* by selecting: Searching -> Shopping Cart.

The screenshot shows the 'Shopping Cart' interface. At the top, there is a navigation bar with 'Session', 'Searching', 'Cataloging', and 'Help'. Below this is a sub-header 'Shopping Cart' and an 'Edit Group Attributes' button. A table lists items with columns for 'Delete', 'Document ID', 'Date', 'Format', and 'Compression'. At the bottom, there are buttons for 'Reset Form', 'Delete Marked', 'Clear Cart', and 'Order All'. Red lines and numbers 1-5 point to specific elements: 1 to the 'Delete' checkbox, 2 to the 'Document ID' text, 3 to the 'Searching' menu, 4 to the 'Edit Group Attributes' button, and 5 to the 'Format' column header.

Delete	Document ID	Date	Format	Compression
<input type="checkbox"/>	LANGLEY 1X344 39F JITC	19970126101023	NITF 2.0	No
<input type="checkbox"/>	MOFFIT 1X343 38F JITC	19970127081023	NITF 2.0	No
<input type="checkbox"/>	SAN DIE 1X345 42F JITC	19970226101023	NITF 2.0	No
<input type="checkbox"/>	IPA_sun 27195255ZOct97 504094	19971024131305	NITF 2.0	No

- 1) **Ordering Bin:** Products may be sorted into multiple bins if there are products from more than one source. For instance, CSIL products will be displayed in their own bin, whereas IPL and 5D will share an ordering bin.
- 2) **Delete:** Users may select products to be deleted by placing a check in the

corresponding row, and selecting the *Delete Marked* button at the bottom of the screen. They may also select the *Clear Cart* button to delete all products. **Note:** Once a CSIL product is ordered, it will automatically be deleted from the *Shopping Cart*.

- 3) **Document ID:** Contains a list of products, displayed in the order in which they were added to the *Shopping Cart*. Each product in the bin is a hyperlink *the Order Characteristics* screen in which the user may place detailed information for ordering that product.
- 4) **Edit Group Attributes:** Depressing this button will spawn the *Order Characteristics* screen for detailed order parameters for the *Group* or *Bin*. This will be explained in further detail below.

Once the user selects either an individual product, or *Edit Group Attributes*, the *Order Characteristics* screen for the request will open. This is where parameters for the product or bin are selected.

- 1) **Product:** Sample of the product, thumbnail if it is imagery.
- 2) **Metadata:** Associated metadata for that product
- 3) **Destination List:** Location to which the user wants the product sent to. **Note:** The user must have an account on a server that has FTP loaded. Please see more details in the *Formatted Reports* section of this Training Guide.
- 4) **Destination Filename:** Name given to the product by the user.
- 5) **Product File Type to Pull:** There are two types, *Product Only* and *Product and Data Files*. Selecting *Product Only* will only return the image to the destination. *Product and Data Files* will return both the image, and all the associated metadata for that product.
- 6) **Format and compression for image products:** There are four choices for the user. *As Is*, *NITF 2.0*, *TIFF 6.0*, or *JPEG*. When *As Is* is selected as the product format, the compression option is not available and the product will be returned to the destination in the same format in which it was originally stored. The user may convert and/or compress the selected product by choosing one of the other formats, and a desired *bit size*. **DEFAULT:** *As Is*.
- 7) **NITF Compliance Level of the Viewer:** The user may select the compliance level according to their image viewer. For instance, AFMSS can only use a compliance level of 1.
- 8) **Save settings as default:** User may do this by selecting the checkbox.

Session Searching Help

Edit Individual IPL/5D Order Characteristics



Classification: Unclassified
 Product Size: 1,050,554 Bytes
 Source: IPL 1.0 at Sun via Daleth
 Format: Image: NITF 2.0 (.ntf)
 Rows: 1024
 Columns: 1024
 Image Representation: MONO
 Actual Bits-Per-Pixel: 8
 Number of Bands: 1
 Compliance Level: 1
 Compression/Rate: NC/
 Post Date: 19970226101023
 Point of Contact: UNKNOWN
 Geo-Coordinates: Upper Left: 324500N1171000W
 Upper Right: 324500N1170000W
 Lower Right: 323000N1170000W
 Lower Left: 323000N1171000W

Destination List:

Enable	Login Name	Password	Host Name or IP Address	Path
<input type="checkbox"/>				

Destination Filename:

Product File Type to Pull: Product Only Product & Data Files

Select format and compression for image products:

<input checked="" type="radio"/> As Is	<input type="radio"/> NITF 2.0	<input type="radio"/> TIFF 6.0	<input type="radio"/> SUN Raster	<input type="radio"/> JPEG
NITF 2.0	JPEG(Lvl 5), 8-bit	8-bit	8-bit	N/A

For NITF 2.0 Requests Only:
 NITF Compliance Level of Viewer:

Save settings as defaults

ResetForm Cancel Apply

9) **Apply:** Once all desired parameters are entered, select *Apply* to order.

Once the product is ordered, the user may check the status through *Order Status*, discussed next.

Order Status

The purpose of the *Order Status* screen is to allow the user to check the status of CSIL, IPL, 5D, IDEX, and *Formatted Report* products that have been ordered or requested.

The user can access the *Order Status* utility by selecting: Searching -> Order Status



Order Status Reports

Category	Success	Failed	Pending	Total
Totals	3	0	0	3
5D	2	0	0	2
IPL	1	0	0	1
Archived				0

(1) **REQUEST ID:** 27174639ZJul00 000095134512197271151382000010000017527
Filename: bswduser.FIVED08002022cdda19990329094422513.NITF02.00
Source: 5D at Titan via Beth (5D)
Request Date: 20000727174639

Status	Success
Message	Transfer successful.
Report Date	20000727174658
Destination Account	bswduser
Destination Address	beth
Destination Path	/tmp

(2) **REQUEST ID:** 27174642ZJul00 000095134512195182000020000017527
Filename: bswduser.FIVED08002078638a19990329095446306.NITF02.00

Reset Form Delete ALL Delete Marked

Top Section: The top section is a summary of all requested products by source type along with a total. Products will start in the *Pending* column, but will move to either the *Success* or *Failed* column once the order is completed. In addition, any products archived will be noted in the *Archived* row.

Bottom Section: The bottom section is a detailed description and the status each request. In addition, each request is color-coded for the corresponding status. If the status is first observed as *Pending* (yellow), the color will change to the appropriate color once the order is finished (green or red) upon refresh of the screen. For all products other than

CSIL, a check box is located on the left-hand side of the summary. The check box may be selected or deselected to allow the user to delete the status of selected products. Note: It is not wise to delete any Pending orders, as the status of that order will no longer be displayed, even after ordering. Also, deleting the status notification does not delete the order, just the notification in the application.

The Order Status screen will display different information items depending on the type of product. The information items, their definitions, and the product category the item will appear with are as follows:

Attribute	Description	IPL	5D	IDEX	CSIL
Product Category	The product category	*	*	*	*
Product Filename	Filename of the requested product. This is the file being transferred.	*		*	
Status	This will list whether the file was successfully transferred	*	*	*	*
Report Date/Time	The Zulu date and time the product was ordered or requested.	*		*	
Destination Host Name	Host name of the destination location.	*		*	
Destination Path	The destination pathname for the product.	*		*	
Image ID	The ID of the image.				*
Registered User ID	The registered user ID				*
Start Date/Time	The date and time a CSIL order was initiated				*
Status Date/Time	The date and time of the current status message.				*
Task Number	The Task Number.				*

Saved Queries

The *Saved Queries* tool allows the user to create *Batch* and *Update Profiles* for saved queries. To save the query, the user should select the *Save Query* button on the Query Form, name the query in the box provided, and select OK. This may be done either without executing a query, or it may be saved before or after executing a query. Once a query has been saved, the user may manipulate the saved query in various ways.

The user can access the *Saved Queries* utility by selecting: Searching -> Saved Queries

The screenshot shows the 'Saved Queries' utility interface. The top navigation bar includes 'Session', 'Searching', 'Cataloging', 'Administration', 'ISSO', and 'Help'. A dropdown menu under 'Searching' is open, showing options like 'Search Tools', 'Formatted Reports', 'Shopping Cart', 'Order Status', 'Saved Queries' (highlighted), and 'Profile Notification'. The main window title is 'Saved Queries'. It contains a table with columns: 'Select', 'Name', 'Type', 'Update Profile', 'Batch Profile', and 'Actions'. Two rows are visible: 'unclassified' (unchecked) and 'mike1' (checked). The 'mike1' row has 'Expired' under 'Update Profile' and 'None' under 'Batch Profile'. The 'Actions' column contains 'Execute', 'Load', and 'Remove Batch Job' buttons. At the bottom, there are buttons for 'Reset Form', 'Edit Update Profile', 'Edit Batch Profile', 'Delete ALL', and 'Delete Marked'.

Select	Name	Type	Update Profile	Batch Profile	Actions
<input type="checkbox"/>	unclassified	Short	Expired	None	Execute Load Remove Batch Job
<input checked="" type="checkbox"/>	mike1	Short	None	None	Execute Load Remove Batch Job

At the bottom of the window, there are buttons for 'Reset Form', 'Edit Update Profile', 'Edit Batch Profile', 'Delete ALL', and 'Delete Marked'.

- 1) **Select:** The user must select the query they want to modify. The *Select* check box is also used for deletion from *Saved Queries*.

- 2) **Name:** Name of the saved query.
- 3) **Type:** Reminds the user how the query was originally saved. It may be *Short*, *Advanced*, or *Geo* depending on the type of query.
- 4) **Update Profile:** Shows whether there is a profile associated, as well as the status of that profile. The status may be as follows:
 - *None* – No *Update Profile* has been created.
 - *Not Allowed* – Query contains a date range, and is therefore not eligible for update scheduling.
 - *Active* – Profile is checked for new/updated product matches.
 - *Inactive* – Profile is stored, but not checked for product matches.
 - *Expired* – User-specified duration has elapsed. Profile remains on the system. This is explained in further detail below.
- 5) **Batch Profile:** Shows whether there is a profile by listing the time of the *Batch Query*, or the status of the query. The status may be as follows:
 - **None** – No *Batch Profile* has been created.
 - **Time/Date** – Processing is pending until this time and date.
 - **Inactive** – *Batch* parameters are defined, but job is not scheduled.
 - **Processing** – Query is being processed.
 - **Completed** – Query has finished processing and results are available through *Profile Notification*. This is explained in further detail below.
- 6) **Actions:** There are three actions a user may use without setting an profiles. They may *Execute*, *Load*, and *Remove Batch Job*. *Execute* will immediately launch the query according to sources currently selected in *Preferences*. *Load* allows the user to view the query as it was saved, and make any necessary changes. *Remove Batch Job* stops the query from execution at a later time. It does not remove the query from *Saved Queries*, and a new *Batch Profile* may be entered at any time.

There are five buttons across the bottom of the Saved Query screen. Next is a quick description of the buttons, with a more detailed description of the Update Profile and the Batch Profile following.

- **Reset Form:** Restores the values on the page to original values when first entering the page.
- **Edit Update Profile:** Displays *Update* parameters for editing and activation/deactivation.
- **Edit Batch Profile:** Displays *Batch* parameters for editing and scheduling.
- **Delete All:** Deletes information associated with all the listed queries.
- **Delete Marked Items:** Deletes information associated with the selected queries.

will be discussed in further detail in the *Profile Notification* section.

- 4) **Status:** The current status of this profile. If the status is either *Inactive* or *Expired*, the user will not receive any updates until the status is set back to *Active*.
- 5) **Sources to Search:** Where the user specifies which sources to search. **Note:** The *Update Profile* works with imagery sources.

Batch Profile

The *Batch Profile* allows the user to run a *Saved Query* at some future date and time. The query will be executed at a specified time even if the user is not logged in. Any data that satisfies the *Saved Query* criteria, the user will be notified in *Profile Notification*.

The screenshot shows the 'Edit Batch Profile' dialog box with the following fields and options:

- Query Name:** mikel
- Query:** KEY KEYWORD Like "*aircraft*"
- Schedule Time/Date (GMT):** 15 Hr 55 Min Dec 22 2000
- Query Method:** Simultaneous Sequential

Sources to Search	Order to Search
<input checked="" type="checkbox"/> IPL 1.0 at Sun via Saturn	<input type="checkbox"/>
<input type="checkbox"/> AMHS at Elara via Saturn	<input type="checkbox"/>
<input type="checkbox"/> CSIL at DIA via Saturn	<input type="checkbox"/>
<input type="checkbox"/> IESS at IESS0 via Saturn	<input type="checkbox"/>
<input type="checkbox"/> MIDB at Hoth via Saturn	<input type="checkbox"/>
<input type="checkbox"/> MEPED via Saturn	<input type="checkbox"/>
<input type="checkbox"/> Air Force Weather via Saturn	<input type="checkbox"/>
<input type="checkbox"/> Intelink-Hydra Search via Saturn	<input type="checkbox"/>
<input type="checkbox"/> Intelink-Meta Search via Saturn	<input type="checkbox"/>
<input type="checkbox"/> 5D at Saturn via Saturn	<input type="checkbox"/>
<input type="checkbox"/> 5D at 480ig Via Saturn	<input type="checkbox"/>
<input type="checkbox"/> 5D at Titan via Saturn	<input type="checkbox"/>
<input type="checkbox"/> MIDB Source	<input type="checkbox"/>

Buttons at the bottom: Reset Form, Cancel, Schedule, OK

Like the *Update Profile*, the *Edit Batch Profile* screen is broken up into several sections:

- 1) **Query Name and Query:** This section has the name of the *Saved Query* along with the associated Broadsword Query Statement (BQS), or the query string.
- 2) **Schedule Time/Date (GMT):** This is the date/time that the batch job is to execute.
DEFAULT: The system's current time and date.
- 3) **Query Method:** *Query Method* can be *Simultaneous* or *Sequential* as discussed in the *Search Sources* section. The *Simultaneous* method will search all of the selected sources for results that match the query. The *Sequential* method searches once source at a time in the order specified (see below) until results are found.

- 4) **Sources to Search:** User specifies which sources to search with the *Batch* query.
- 5) **Order to Search:** Used with a Sequential query to specify the order to search sources. If no order is specified, Broadword defaults to the order in which the sources appear.

After updating the profile, the user may select *OK* to save the profile, or *Schedule* to save and schedule the *Batch* query.

Profile Notification

When a *Batch* or *Update Profile* has been activated or scheduled, Broadword may search for data without the user being logged on. After the search has been completed the user is notified through *Profile Notification*.

The user can access *Profile Notification* by selecting: Searching -> Profile Notification

The screenshot shows the 'Profile Notification' window. At the top, a menu is open under 'Searching', with 'Profile Notification' selected. The main window has a title bar 'Profile Notification' and a table with columns: 'New', 'Profile Name', 'Process', and 'Date'. The table contains three rows of data. Below the table is a control bar with a checked 'Multiple Select Mode' checkbox and buttons for 'Delete Selected', 'Get Msg', and 'Close'. At the bottom of the window are buttons for 'Reset Form', 'Add All to Cart', and 'Add to Cart'. Red vertical lines with numbers 1 through 8 point to these specific elements.

New	Profile Name	Process	Date
	tid_0477	Update	20001002140003
	tid_0477	Batch	20001002140551
	tid_0477	Update	20001002143003

The following is a description of the Profile Notification screen.

- 1) **New:** The first column lists an asterisk (*) next to the entry if the result has not been viewed by the user.

- 2) **Profile Name:** Contains the name of the *Saved Query* the hit matched.
- 3) **Process:** Indicates whether the results came from an *Update Profile* or a *Batch Profile*.
- 4) **Date:** Contains the date/time that the system retrieved the results.
- 5) **Multiple Select Mode:** Allows the user to select multiple entries for addition to a *Shopping Cart* or deletion from the *Profile Notification*.
- 6) **Delete Selected:** Deletes selected result entries.
- 7) **Get Msg:** Once an entry is selected, use the *Get Msg* button to retrieve the results. Results will be displayed in a separate window.
- 8) **Close:** Closes the *Profile Notification*. *Profile Notification* may be minimized during a Broadsword session, and will automatically launch once a notification is received.

Profile Notification			
New	Profile Name	Process	Date
	North Korean SAM sites	Batch	20001006154035

Multiple Select Mode Delete Sel

Profile Name: North Korean SAM sites
Date: 20001006154035
Process: Batch

Title/Description (Hits: 1 - 21)		Products/R
1	roger testing status 28-10 [IPL 1.0 at Sun via Saturn]	

Thumbnail Details

File Number 1
Image Number 1
Thumbnail Format GIF

Target Details Details

Category 92000
Country Code IZ
File Number 1
Datum GEO
Percent Coverage 100
Geographic Coordinates 280000N0500500E
Identifier AREAML1006
Name IRAQ

When an item is selected, the results are displayed in a list format.

On the bottom of the screen, *Reset Form* restores the values on the page back to the values that existed when first entering the page. *Add All To Cart*, adds all the products to the *Shopping Cart*. *Add To Cart* adds the selected product(s) to the *Shopping Cart*. When *Profile Notification* is minimized, it will automatically launch notifying the user of any new results.

Chapter Three Quiz

Please answer the following questions. For questions with the answers provided below, please circle the most correct answer.

- 1) Formatted Reports can only be generated from three databases. List them. (p.44)
 - _____
 - _____
 - _____
- 2) Formatted Reports may be sent to how many destinations? (p.45)

1 2 3 4 5 6
- 3) Most Formatted Reports are available in three formats: TEXT, HTML, or XML. (p.45)

True False
- 4) Products are sent to the Shopping Cart from where? (p.47)

Preferences Query Form Retrieved Results
- 5) Edit Group Attributes applies them to all the products contained in the bin. (p.48)

True False
- 6) NITF 2.0 images may be compressed. (p.48)

True False
- 7) Deleting a status box from Order Status also deletes the query from the destination. (p.51)

True False
- 8) In Saved Queries, if you have a query with a Batch Profile and you select Execute, it will send the query according to the Batch Profile. (p.53)

True False
- 9) Removing a Batch Job also removes the query from the Saved Queries menu. (p.53)

True False
- 10) Update Profile will automatically pop up to update you when it is minimized. (p.59)

True False

Comments on this Chapter:

Chapter Four

Objective:

Chapter Four is for our students that are *Producers* for IPL. In this chapter, the student will learn how to use Broadsword to catalog to their local IPL databases. They will learn to *Modify Data*, *Transfer Files*, *Load NITF*, and *Load IPL Data Files (IDF)* created by Broadsword. In addition, the student will learn to create and *Load a Template*, and *Auto Populate* IPL with data from IESS. Finally, the student will be able to *Load Last Saved* and check the *Catalog Status* of their product transferred.

Cataloging

The Cataloging section provides the user with the ability to catalog products to any IPL server that is connected to the same Gatekeeper as the server. There are several cataloging tools provided by the interface. They are: Catalog New Product, Load Last Saved, and Catalog Status.

Session	Searching	Cataloging
		Catalog New Load Last Saved Catalog Status

Note: Before attempting to catalog a product, the user must enter a username and password in the Source Required Data section located under Session -> Preferences, for each IPL that the user will catalog to.

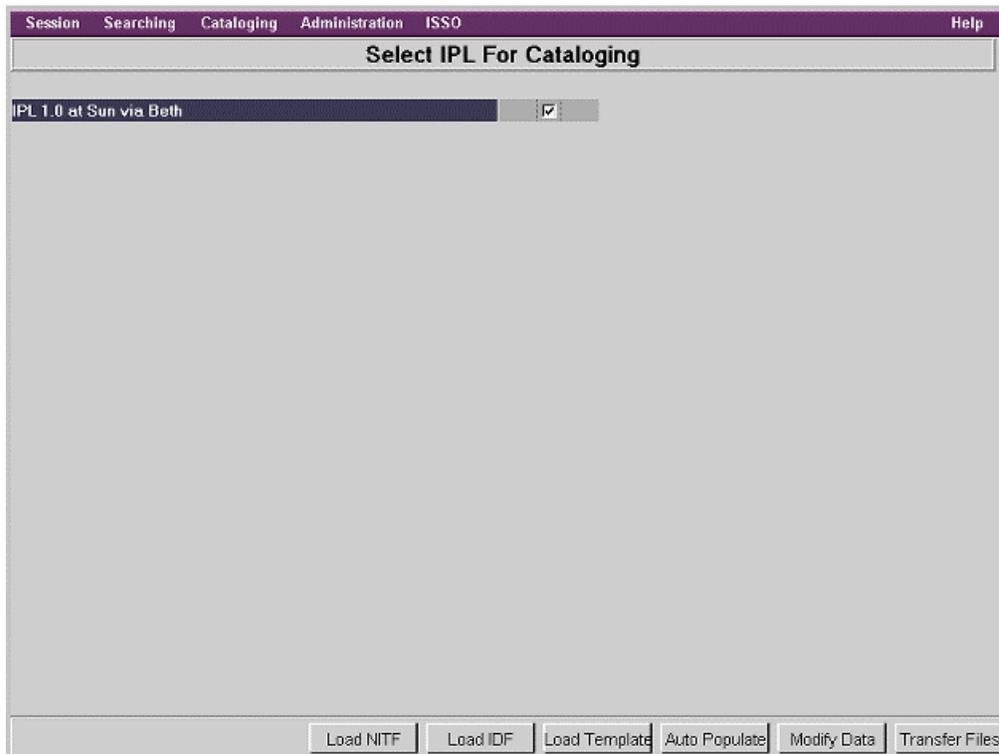
Warning: When saving your products to a directory, be sure that the directory being utilized is large enough for products to be cataloged to.

Cataloging New Products

This page starts the process allowing the user to catalog product(s) into one or more IPL data sources.



The first step in Cataloging is to select which IPL(s) to catalog information into.



Next, the user may choose which type of tool to use to catalog a product.

Load NITF: This button allows the user to load a NITF product and parse the header for metadata to use for cataloging.

Load IDF: This button allows the user to load an IPL Data File and parse it for metadata to utilize while cataloging.

Load Template: This button allows the user to load a previously saved template of metadata to utilize while cataloging.

Auto Populate: This button allows the user to request metadata from an IESS source to

utilize while cataloging.

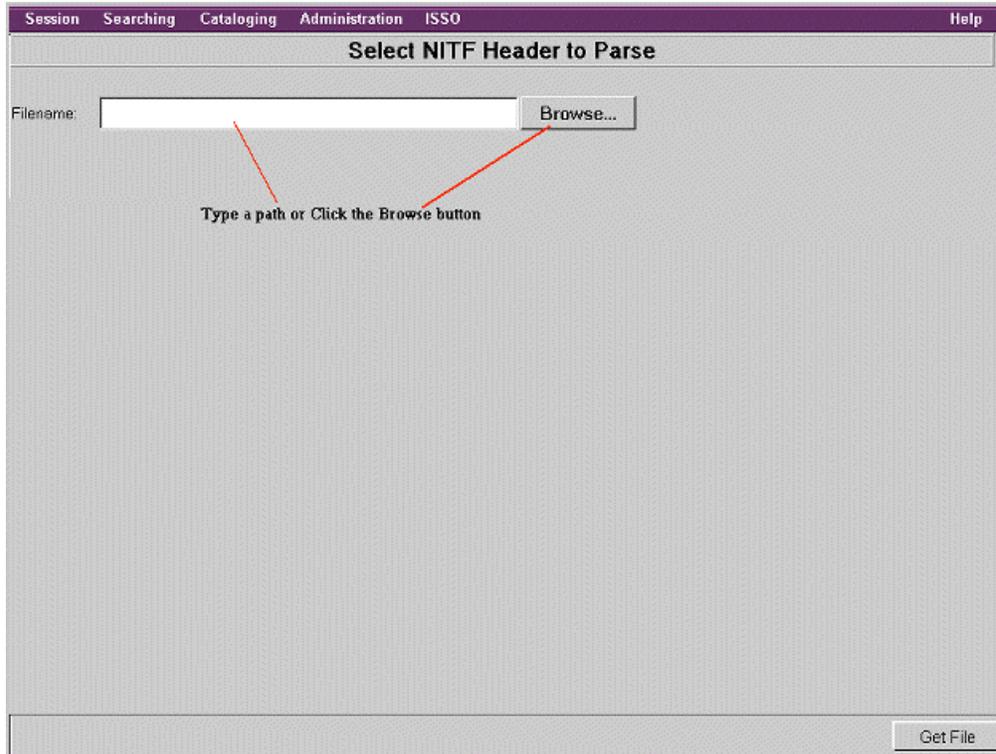
Modify Data: This button allows the user to manually edit the metadata used for cataloging the product.

Transfer Files: This button will move the data file(s) to be cataloged from the user's machine through the Broadsword server to the IPL(s) the user has selected.

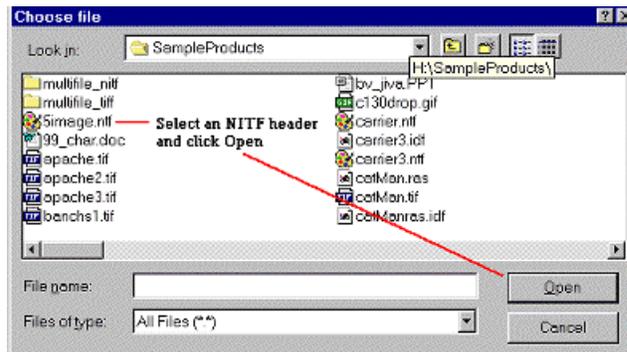
Load NITF

The interface provides a mechanism for parsing the NITF's header information, and then using this information to fill in some of the cataloging metadata. After the NITF metadata has been parsed, the user may continue to catalog the product.

Once the user selects on the *Load NITF* button, they will see the page shown below.

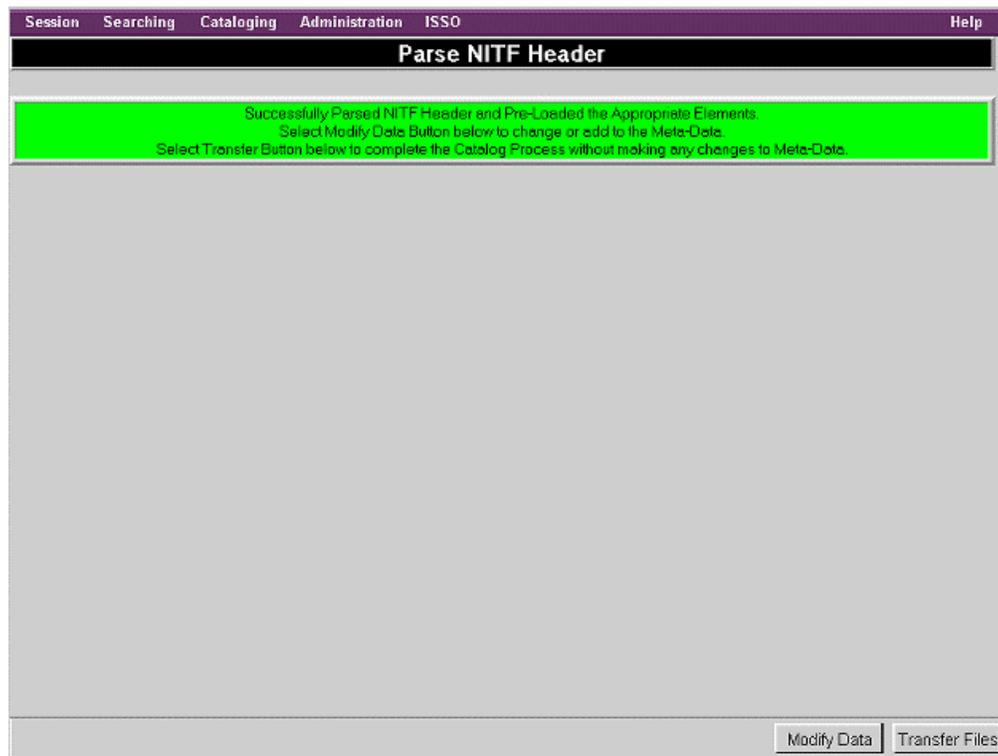


If the user knows the path to an NITF file, they may enter it manually into the *Filename* text box, or they may use the *Browse* button that allows the user to search the local system for files. The *Browse* button will popup a window similar to the one shown below.



Please ensure with your system administrator that there is sufficient space in the Broadword server's */opt* directory structure for the product(s) you wish to catalog. This is where they are temporarily stored while Broadword processes them for IPL ingest. Also, please ensure that your local machine has sufficient space in the temporary directory used by your browser to hold the same file(s). This browser will put a copy of the product in it for a short period of time before sending the file(s) to the Broadword server.

Once the correct NITF file has been selected, the user may select on the *Get File* button. The *Get File* button tells the system to parse the selected NITF header for its metadata. Once the header has been parsed for metadata, the user will see a page that tells them that the process was successful.



Once the NITF has been successfully parsed, the user has the option of modifying the metadata for the product.

Modify Data

The *Modify Data* provides the user with the ability to catalog a product to an existing IPL from scratch, or edit any data loaded through an *NITF*, *IDF*, *Auto Populate*, or *Load Template*.

By selecting on that product's *Product Elements* link, the records may be viewed and edited.

Add	Table	Copy	Remove	Description
<input checked="" type="radio"/>	* Product			Product Elements
<input type="radio"/>	Associated_Reports			
<input type="radio"/>	Equipment			
<input type="radio"/>	Event			
<input type="radio"/>	Image			
<input type="radio"/>	Keyword			
<input type="radio"/>	Person			
<input type="radio"/>	Requesting_Organization			
<input type="radio"/>	Section			
<input type="radio"/>	Target			

Number of Copies:

NOTE: * Signifies Mandatory Fields In This Table

Remove Marked Add New Copy Marked Reset Form Transfer Files

With the buttons described below and the various radio buttons, the user may add, copy or delete records to a specific table. In addition, the user may return to the original version of this page if there is a significant error performed during the modification of the metadata.

- **Remove Marked:** This button only becomes selectable once the user selects at least one record *Remove* radio button.
- **Add New:** This button only becomes selectable once the user selects the *Add* radio button next to the table to which they want to add a record. This will launch a new window with which to fill in the record data.
- **Copy Marked:** This allows the user to select one record to copy by selecting on the *Copy* radio button next to its name and modify the number in the box under the list of the tables.

- **Reset Form:** Restores the values on the page back to the values that existed when first entering the page.
- **Transfer Files:** Once the metadata has been manipulated, the user may select here to send the product to IPL in preparation for cataloging.

From this screen the user may modify the metadata information. The **M** next to the fields indicated a mandatory field.

1

Modify Product Elements

Product Title: This NITF message contains 5 images, 4 syn **M**

Short Name: NO SELECTION **M**

Classification: Unclassified (U) **M**

Product Code:

Originator Name: BETAC Corporation

Org. Station ID: SAMP4

FM Control:

Creation Time: YYYYMMDDhhmmss
20000801130718

Product Format: NITF 1.1 (NITF01.10)

Producer Code: NO SELECTION **M**

Compliance Level:

Map ID:

Producer SubElement:

Subjective Detail: NO SELECTION

Indicates mandatory field

Security Data:

Authority:

Downgrading: 999998

Downgrade Event: This message will not need a downgrade.

Code Words:

Control:

Release: NO SELECTION

Associated Text:

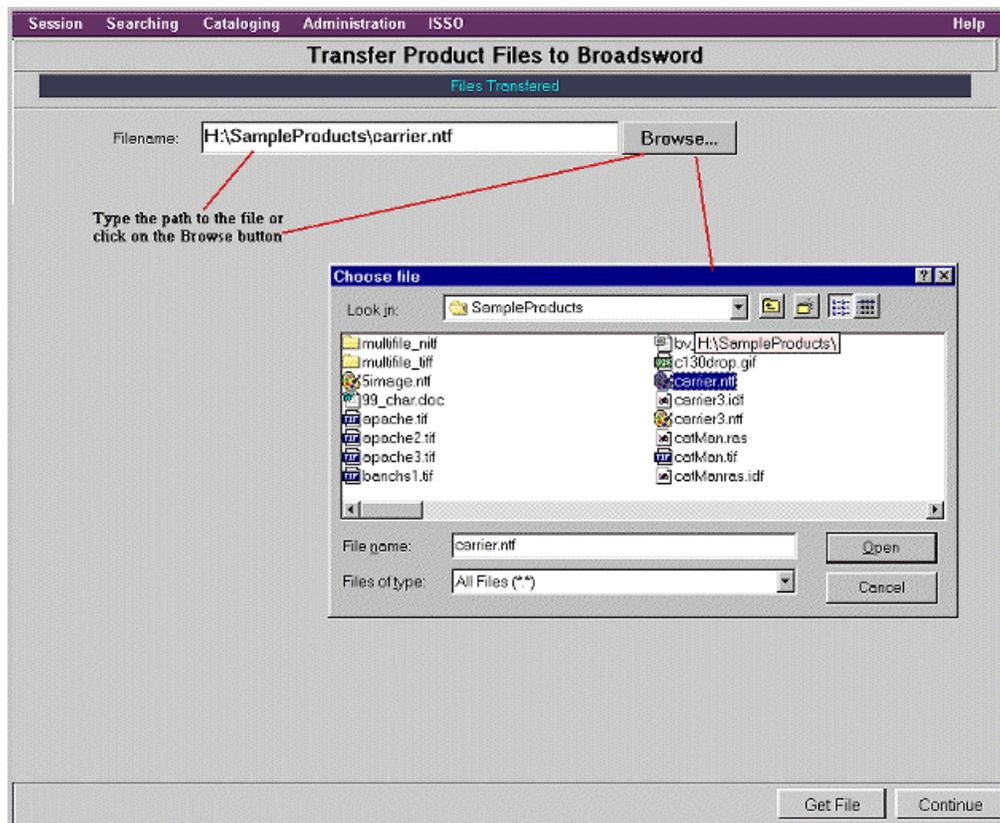
Enter any additional free-text information that describes the product in the scrollable box:

OK Cancel

This page contains a list of tables that may have metadata when a product is cataloged into an IPL data source. For every record the user has entered, either manually or through the various *Load* or the *Auto Populate* functions, Broadsword will create a link to a page that allows the user to modify the metadata. After the user has modified the metadata and selected the *OK* button, they are returned to the *Modify Metadata* page.

Transfer Files

Once modifications have been made, the user may continue the process by selecting the *Transfer Files* button. The next screen will allow the user to choose the image file they want transferred. The user may type in the name of the file or use the *Browse* button to search for the file. The Browse button will pop up a window similar to the one shown below.



The *Get File* button will grab the file the user wants to transfer. Once the *Continue* button has been selected, the user will see a screen that allows them to *Validating Catalog Session*. The *Validation* screen also provides the user with the ability to save the transaction as a *Template*.

Session Searching Cataloging Administration ISSO Help

Validating Catalog Session

IPL's Selected to Catalog To

IPL 1.0 at Sun via Saturn	<input checked="" type="checkbox"/>
IPL 1.0 at Titan	<input type="checkbox"/>

Table	Record	Element	Value
Image	1	File Number	01
	1	Image Number	001
	1	Compress. Gen.	00
	1	Form of Compr.	NC
	1	Coordinate System	N
	1	NIIRS	
Product	1	Rows	00000000
	1	Title	MAN CAT OF SR CONVERSION
	1	Creation Time	17133110ZMAR99
	1	Short Name	BIIR
	1	Product Format	SunRaster
	1	Classification	U
	1	Producer Code	PP
	1	Originator Name	test05
Target	1	Associated Text	Length : 68
	1	File Number	01
	1	Image Number	001
	1	Percent Coverage	050
	1	Country Code	US
	1	Category	55000
	1	Geo Coordinates	750000N0440000E
	1	Target ID	AREAML1166
1	Target Name	testing manual catalog	

Delete Filename

No Files are Currently Transferred to Broadword.

Save as a Template Named :

Delete File Modify Data Finish

When the user is done reviewing the *Validation* screen, they may select *Finish* to complete the process. The *Finish* button will open a screen, which informs the user whether or not the transaction was successful.

Session Searching Cataloging Administration ISSO Help

Transferring Product to IPL(s)

Product successfully submitted to IPL 1.0 at Sun via Saturn for cataloging.

Select Cataloging->Catalog Status on Menu Bar for status of cataloging.
Select Cataloging->Catalog New Product on Menu Bar to Catalog another Product.
Note: Current Catalog data has been saved off as Last Catalog Session.

Catalog Status

This page shows the user the status of previously cataloged products. The user can access Catalog Status by selecting: Cataloging -> Catalog Status



The screenshot shows the 'Catalog Status Reports' page. At the top, there is a navigation bar with 'Session', 'Searching', 'Cataloging', 'Administration', 'ISSO', and 'Help'. Below the navigation bar is a title bar 'Catalog Status Reports'. The main content area features a summary table and a list of records.

Source	Success	Failed	Pending	Total
IPL 1.0 at Sun via Beth	9	5	0	14
Totals	9	5	0	14

Below the summary table, there are three records, each with a checkbox for selection:

(1) REQUEST ID: 20000731135758000097541795516420000002390
Source: IPL 1.0 at Sun via Beth
Status: Success
Status Message: Catalog New Product: Transfer to IPA successful. Product archived at: 31135755ZJUL00
Title: catst_73100
Catalog Date: 20000731135802
Status As of: 20000731135820

(2) REQUEST ID: 20000731141431000009754179197955109754176000000002390
Source: IPL 1.0 at Sun via Beth
Status: Success
Status Message: Catalog New Product: Transfer to IPA successful. Product archived at: 31141425ZJUL00
Title: catst_73100
Catalog Date: 20000731141436
Status As of: 20000731141452

(3) REQUEST ID: 20000731164342000009754179143425162042044800000005138
Source: IPL 1.0 at Sun via Beth
Status: Success
Status Message: Catalog New Product: Transfer to IPA successful. Product archived at: 31164342ZJUL00

At the bottom right, there are two buttons: 'Delete' and 'Delete All'.

The top of the page contains a box showing an overview of the products cataloged by source and by result - *Success*, *Failed*, and *Pending*. It also shows the user totals of the above categories.

The remainder of the page is a list of catalog records with detailed information. Each record shows a checkbox that allows selection for deletion one record at a time, as well as a chart. The charts show the Request ID of the product, the source it was attempted to be cataloged in, the status, a more detailed status message, the title of the product, its date of cataloging, and the date the status was last checked. **Note:** This page does not show if an IPL 2.1 or 2.5 has successfully cataloged the product, only if Broadword was able to transfer the product to the IPL. IPL 1.0 sources will show successful cataloging or problems with the cataloging of the product

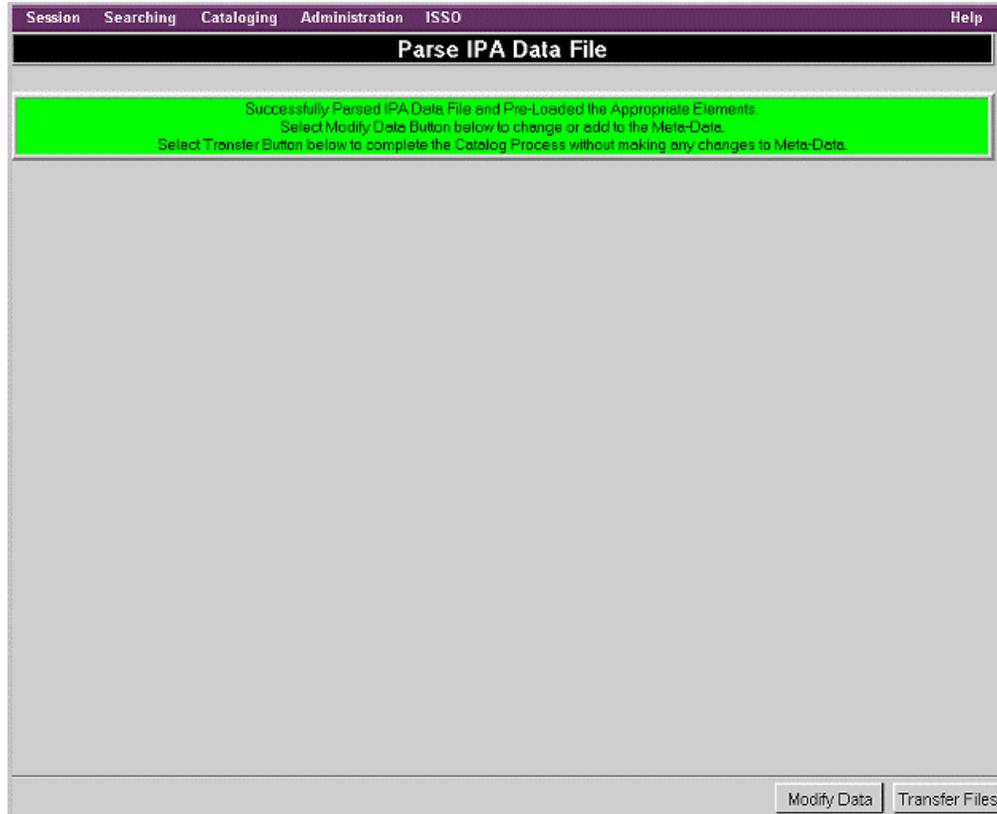
Load IDF

This screen lets the user parse an *IPL Data File* (IDF) to fill in some cataloging metadata using this information. After the IPL Data File has been parsed successfully, the user may continue to catalog the product.

Once the user selects on the *Load IDF* button, they will see the page shown below.

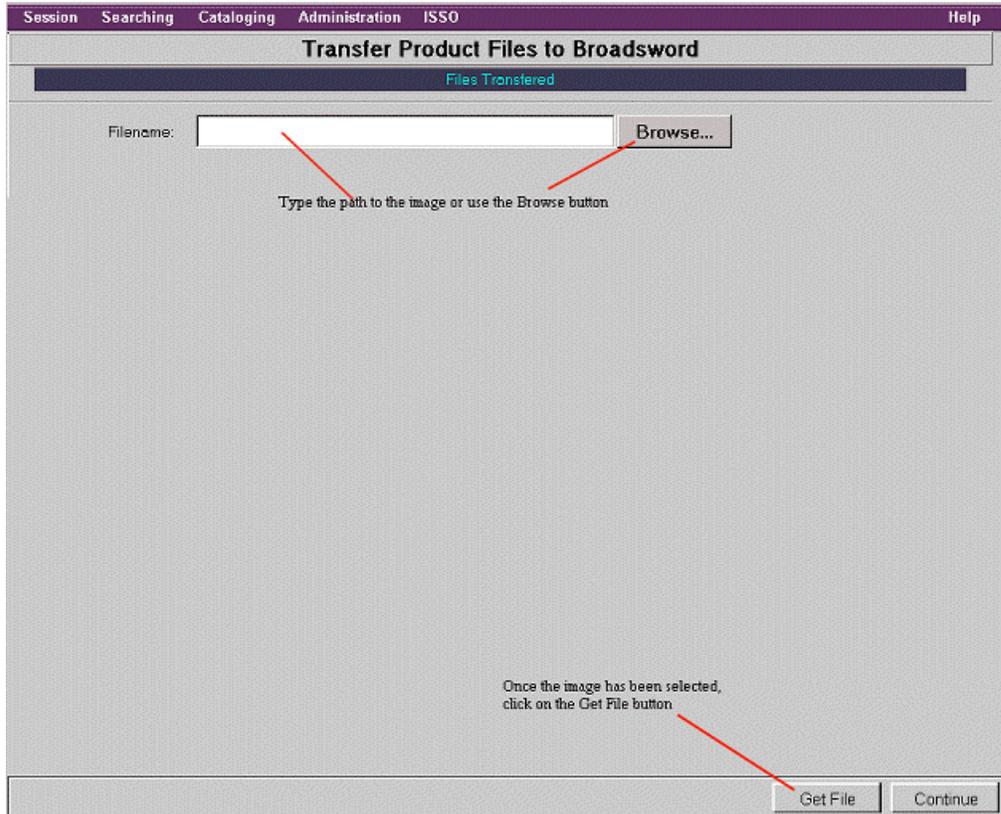
If the user knows the path to an *IDF* file, they may enter it manually into the *Filename* text box, or they may use the *Browse* button that allows the user to search the local system for files.

Once the correct *IDF* file has been selected, the user may select on the *Get File* button. The *Get File* button tells the system to parse the selected *IDF* header for its metadata. Once the header has been parsed for metadata, the user will see a screen that tells them that the process was successful.



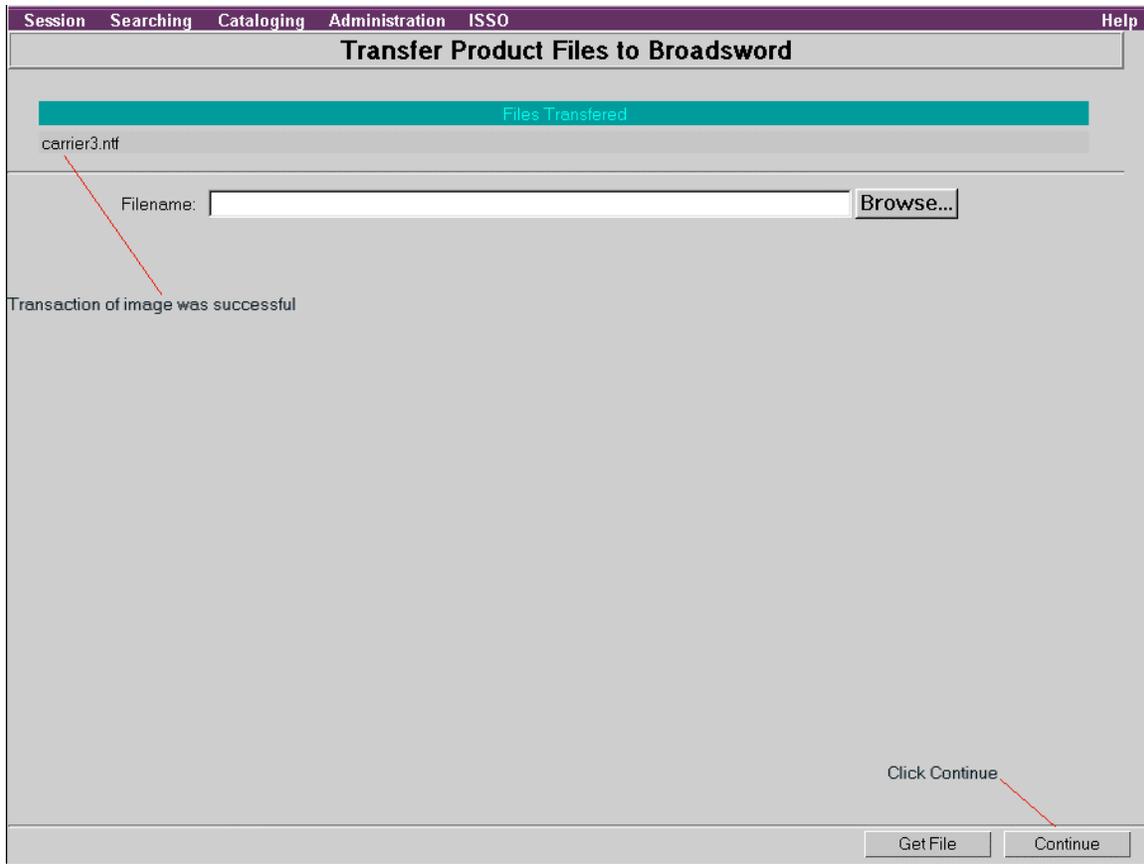
Once the *IDF* has been successfully parsed, the user has the option *Modify Data* or *Transfer Files*.

Once modifications have been made if necessary, the user may continue the process by selecting *Transfer Files*. Since this is an *IDF* transaction, the user must select an image to go along with the metadata.



Select the *Browse* button to select the product's corresponding image file.

Once the image has been selected, the user must select on the *Get File* button in order to transfer the image. After the image has been transferred, the user will see a page similar to one shown below. This page tells the user that the transaction was successful.

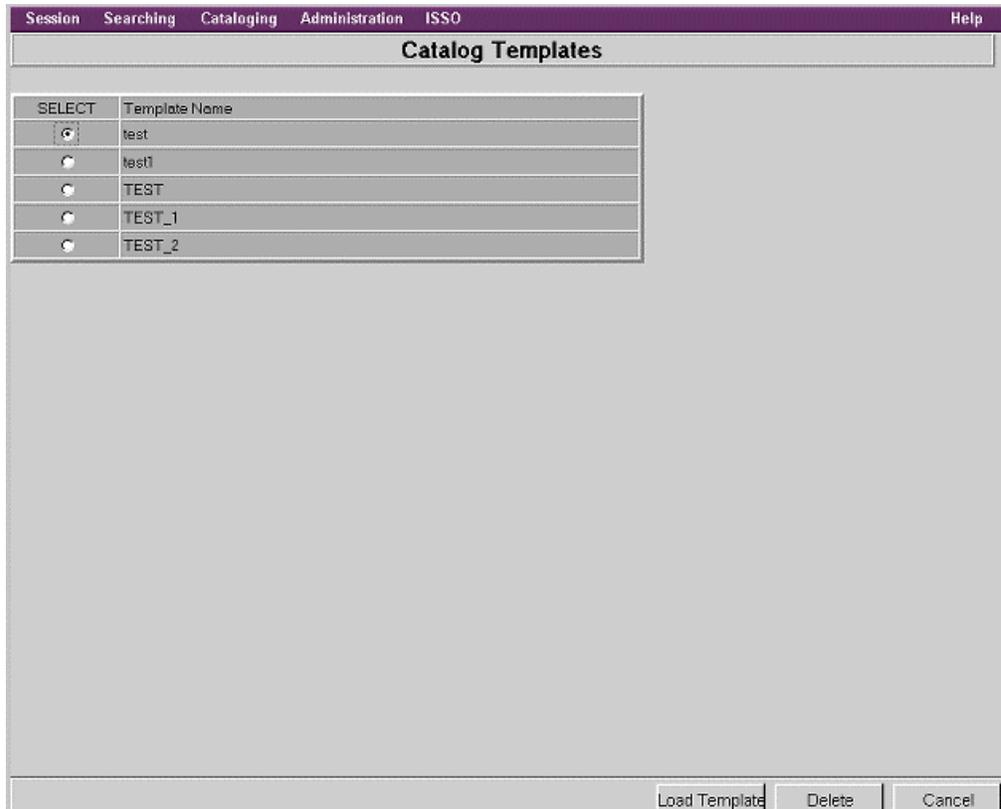


Next, select the *Continue* button to proceed with the transaction. Once the *Continue* button has been selected, the user will see a screen, which allows them *Validating Catalog Session*.

When the user is done reviewing the *Validation* screen, they may select *Finish* to complete the process. The *Finish* button will open a screen that tells the user whether or not the transaction was successful.

Load Template

When cataloging a product, the interface provides the user with the option to save the current cataloging settings in a template. Once created, the user may use the template to auto-fill some of a product's metadata. The first page contains a list of templates the user has previously saved. To load metadata from that template, the user selects the radio button to the left of the template name and selects *Load Template* button.



Once the system loads the template, the user will be able to change the product's metadata.

Once modifications have been made, the user may continue the process by selecting the *Transfer Files* button. The next screen will allow the user to select an image to go along with the imported metadata.

If the user knows the path to an image, they may enter it manually into the *Filename* text box, or they may use the *Browse* button that allows the user to search the local system for files.

Once the correct image has been selected, the user may select *Get Files*. The *Get Files* button opens a screen similar to the Browse screen. Select *Continue* to proceed with the process.

Once the *Continue* button has been selected, the user will see a page that allows *Validating Catalog Session*. When user is done reviewing the *Validation* screen, they may select *Finish* to complete the process. The *Finish* button will open up a screen that tells the user whether or not the transaction was successful.

Auto Populate

This option allows the user to import information from an IESS data source to use as metadata on a product to be cataloged.

Once the user selects the *Auto Populate* button, they will see the screen shown below. From this screen, the user may select a *Source* and enter a *Target ID* to query. Next, the user may select *Do Query* to run the query.

The screenshot shows a software window titled "Query To Populate Meta-Data". The window has a menu bar at the top with "Session", "Searching", "Cataloging", "Administration", "ISSO", and "Help". Below the menu bar is a list of data sources:

IESS at IESS0 via Beth	<input checked="" type="checkbox"/>
IESS at IESS0 via Daleth	<input type="checkbox"/>

Red arrows point from the text "Select a source" to the first row of the table and from "Enter a Target ID" to the "Target ID:" input field. The "Target ID:" field contains the value "0111-08011". At the bottom right of the window are two buttons: "Do Query" and "Cancel".

If the query contains any results, the user will see a screen similar to the one shown below.

The screenshot shows a software interface titled "Query To Populate Meta-Data". At the top, there is a menu bar with options: Session, Searching, Cataloging, Administration, ISSO, and Help. Below the menu bar, a teal header bar contains the text "Title/Description (hits: 1-1)". The main content area displays a message: "NO TITLE AVAILABLE [IESS at IESS0 via Beth]".

The interface is divided into three sections for selecting metadata:

- Image Details:**
 - ESD Yes
 - FILE_NBR 1
 - ICORDS Geodetic
 - IMAGEID [Redacted]
 - IMAGE_NBR 1
 - NIIRS 0.0
 - TIMECOLL 19920107000000
- Product Details:**
 - ACCESSID [Redacted]
 - PRODFMT Image: NITF 2.0 (.nif)
 - PRODOFFLINE Yes
 - NUM_THUMBNAILS 0
- Target Details:**
 - CC IZ
 - FILE_NBR 1
 - GEOCOORDS [Redacted]
 - ID 1800-30000
 - NAME KAFLD
 - IMAGE_NBR 1

A red line points from the text "Select the meta-data" to the selected radio button for "ESD". At the bottom of the dialog, there are three buttons: "Use All", "Use Selected", and "Cancel".

From this screen, the user may select which metadata they would like auto-filled. Once the metadata has been selected, the user may select *Use Selected* to process the metadata.

After modifying the metadata, the user must select an image to with the metadata. To add an image, the user will enter a *Filename*, or select *Browse* for a list of local products.

Once the user has selected the image file, the user may select *Get File*. The *Get File* button will bring the user to a screen where they may see the file has been transferred successfully. Select on the *Continue* button to proceed

Once the *Continue* button has been selected, the user will see a screen, which allows *Validating Catalog Session*.

When user is done reviewing the *Validation* screen, they may select *Finish* to complete the process. The *Finish* button will open up a screen that tells the user whether or not the transaction was successful.

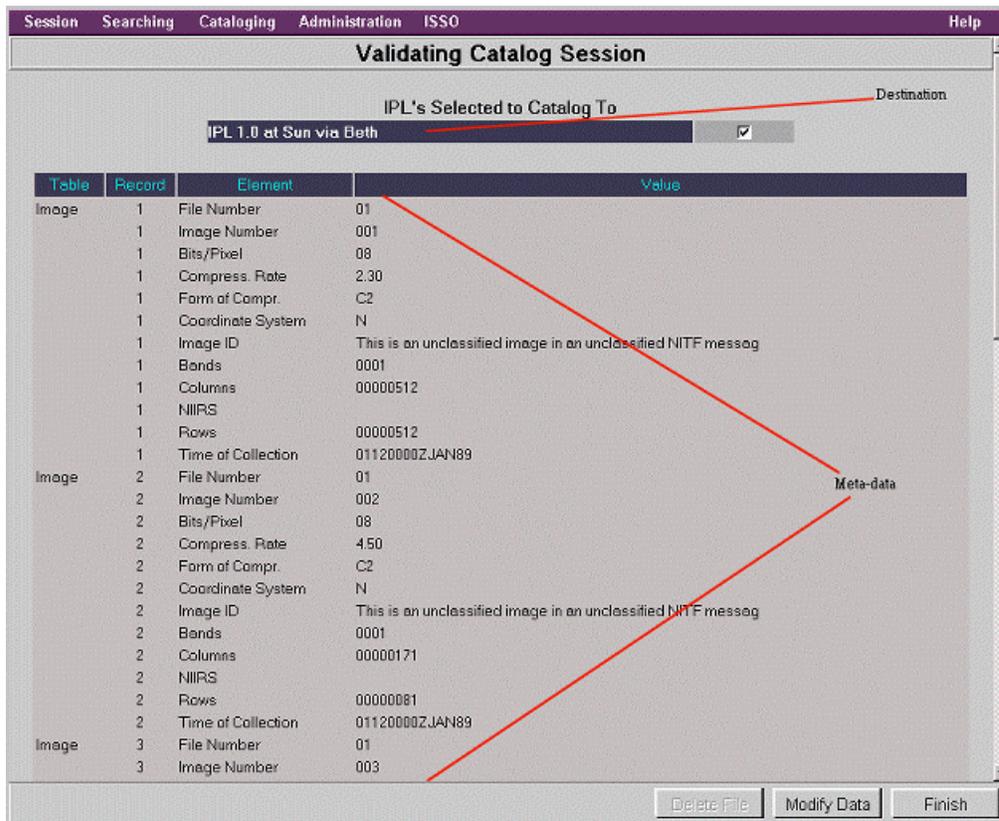
Load Last Saved

The *Load Last Saved* function allows the user to recall the most recent catalog session that was either cataloged or terminated due to time-out by the client. If a user voluntarily terminates a catalog session before actually cataloging the product(s) to an IPL, the session **will not** be saved for reload. All files which were transferred to Broadword are saved (this includes product files) and re-loaded when the load last saved option is selected.

The user can access the *Load Last Saved* feature by selecting: Cataloging -> Load Last Saved



Once the user selects the *Load Last Saved* menu item they will see a screen similar to the one shown below.



The *Validation* screen allows the user to modify the previous metadata and load different images if they wish. It also provides the user with the ability to save the transaction as a template. At the bottom of the *Validation* page, the user will see a text box similar to the one shown below.

The screenshot shows a dialog box with a 'Delete' button on the left and a 'Filename' field on the right. Below the filename field, there is a text box labeled 'Save as a Template Named : TEST'. A red arrow points to this text box. At the bottom of the dialog, there are three buttons: 'Delete File', 'Modify Data', and 'Finish'.

When user is done reviewing the *Validation* page, they may select *Finish* to complete the process. The *Finish* button will open a screen that tells the user whether or not the transaction was successful.

The screenshot shows a web application interface with a purple header bar containing 'Session Searching Cataloging Administration ISSO Help'. The main content area is titled 'Transferring Product to IPL(s)'. It contains the following text:

- Template already existed with that name, so renamed the new template to **bswduser_TEST_2.template**
- Transaction was successful
- Product successfully submitted to IPL 1.0 at Sun via Beth for cataloging.
- Select Cataloging->Catalog Status on Menu Bar for status of cataloging.
- Select Cataloging->Catalog New Product on Menu Bar to Catalog another Product.
- Note: Current Catalog data has been saved off as Last Catalog Session.
- Follow these directions to continue your session

 A red arrow points from the instructions section to the 'Product successfully submitted...' line.

Note: Once the user exits the Load Last Saved page, the page will no longer display the previously cataloged product.

Warning: When saving products to a directory, be sure that the directory being utilized is large enough for products to be cataloged to. Check with the Broadword System Administrator for further questions.

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Training Questionnaire

Thank you for attending today's training. Please fill out the questionnaire below to help the Broadword Program Office to continue improving the training program. Please circle the number that best describes your answer on a scale of one to five.

1. Poor
2. Below Satisfaction
3. Satisfied
4. Above Satisfaction
5. Exceeds Expectations

1) This training has met all the objectives explained at the beginning of each chapter .

1 2 3 4 5

2) This training has given me a good understanding of Broadword and its functions.

1 2 3 4 5

3) Training materials (Student Guide) helped in my understanding of how use Broadword.

1 2 3 4 5

4) The trainer was effective in teaching the material in an understandable fashion.

1 2 3 4 5

5) The trainer answered questions in a clear and concise manner.

1 2 3 4 5

6) What did you like the most about today's training?

7) What did you like the least about today's training?

8) What can we do to improve Broadword training?

9) Final comments.

Please provide POC information below if you would like a call from the Broadword Training Manager concerning today's training.