

A vertical grey bar containing the text 'Appendix B' in a large, bold, black, 3D-style font. The letters are stacked vertically, with 'A' at the top and 'B' at the bottom. Each letter has a slight shadow and a metallic-looking edge, giving it a three-dimensional appearance.

Appendix B – Test Cases

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Broadsword Verification Test Procedures

This section contains procedures that verify that the installation and configuration of Broadsword were performed correctly. The test has been developed to minimize repetition. In some cases, however, repetition is necessary to demonstrate differing requirements. The test is written to run independently of other tests whenever possible. In some cases, a particular test sequence may be required before a test can be completed. In those cases, the tests indicate the proper sequence of events.

The test procedure sheets are organized into four columns, as follows:

- a. Step - This column contains an Arabic numeral that gives each step in the procedure a unique identifier.
- b. Operator Input - This column describes the exact action to be performed by the operator.
- c. Expected Results - This column describes the expected result of the operator input. Unless otherwise noted, all observed results must be exactly as described in the expected results column. The Test Operator records any exceptions in either the Comments column or the Broadsword Test Packet.
- d. Comments - This column is used primarily for expanding on the Operator Input or Expected Results columns.

The Test Operator executes the steps described in the Test Procedure Sheets. During the testing, the Test Director maintains a Formal Test Log to chronologically record events relevant to the formal security testing.

During the execution of installation/maintenance certification tests, hardware and/or software failures may occur. These failures impact the ability to continue testing. Consequently, these failures are categorized to provide direction for test continuance.

All software problems found during installation/maintenance testing are allocated in one of the following categories, and recorded in the formal test logs. Software failures are recorded on Software Problem Reports (SPR)'s in accordance with the Common User Baseline for the Intelligence Community (CUBIC) Configuration Management Plan for Broadsword. The following categories apply:

- a. Priority 1 - Critical Problem. This category encompasses those problems which are serious enough in nature to bring testing to a halt, or an accumulation of less critical problems which indicate that degradation of the integrity of the test has progressed to the point that the test must be stopped.
- b. Priority 2 - Major Problem. This category encompasses problems, which cause a loss of efficiency or effectiveness in the ability to complete the test being executed.
- c. Priority 3 - Minor Problem. This category includes those anomalies, which are, in fact, a problem, but have insufficient impact to warrant discontinuance of testing.

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For an anomaly to fit this category, it cannot affect the results of the test being performed or any future tests.

Corrective action, as a result of an SPR generated during security certification testing, depends on how the problem was categorized. A Priority 1 SPR requires that the software development organization correct the problem prior to the continuance of testing. A Priority 2 SPR requires a decision by the Test Director as to whether a software fix is required before continuing with security certification testing. A Priority 3 SPR does not require software fix during security certification testing.

The test will require executing queries or geographic searches against one or more sources. Each source supports these search mechanisms differently and it is important that the tester understands what each source supports and what each provides in the way of results and products.

Table 1.0 lists the different sources Broadsword is able to query, as well as the query types each source supports.

Source	Geographic Search			Query
	Point	Circle	Polygon	
IPL v1.0	✓ Target Details, Image Only	✓ Target Details, Image Only	✓ Target Details, Image Only	✓
IPL v2.1	✓ Target Details, Image Only	✓ Target Details, Image Only	✓ Target Details, Image Only	✓
IPL v2.5.1	✓ Target Details, Image Only	✓ Target Details, Image Only	✓ Target Details, Image Only	✓
IPL v3.0	✓ Target Details, Image Only	✓ Target Details, Image Only	✓ Target Details, Image Only	✓
5D	✓ Target Details Only	✓ Target Details Only	✓ Target Details Only	✓
MIDB	✓ Not Image	✓ Not Image	✓ Not Image	✓
AMHS	✓ Target Details Only	N/A	N/A	✓
IESS	✓ Target Details, Image Only	✓ Target Details, Image Only	✓ Target Details, Image Only	✓
MEPED	N/A	N/A	N/A	✓
ISM	N/A	N/A	N/A	✓
AODB	N/A	N/A	N/A	✓

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Source	Geographic Search			Query
	Point	Circle	Polygon	
Air Force Weather	N/A	N/A	N/A	✓
FIRES	✓ Facility Only	✓ Facility Only	✓ Facility Only	✓
Intelink Meta	N/A	N/A	N/A	✓
Intelink Hydra	N/A	N/A	N/A	✓

N/A – Utility Not Available

Table 1.0 Source Listing

Installation Verification Test			
Test Date: _____			
Test Start: _____	Operating System: _____	Pass	<input type="checkbox"/>
Test Stop: _____		Fail	<input type="checkbox"/>

Step	Operator Input	Expected Results	Comments	Section
1	Log into a workstation. Method will vary by workstation type.	User will be logged into workstation	Do not log into the server. Use another workstation, preferably a training workstation.	Workstation
2	On the workstation, start the browser. Method will vary by workstation type.	The browser will open in a separate window.	For Netscape, check version. If it is less than 4.7, try to determine the standard and let the trainer know.	Browser
3	In the Browser window, in the location area, enter the URL ([host name or IP address]: port number) of the Broadword system and press "Enter".	A second browser window will appear stating, "Initializing Broadword..." Along with a dialogue box which will state "Close Window."	It might be helpful to check both the hostname and IP address. If the hostname does not work, find out why. Tell the trainer which one to use.	IP and Hostname
4	Click the OK Button.	The Broadword Login page will be displayed.	On the left-hand side, there is a column of buttons, each of which is a link to Broadword support or system services.	Login Page
5	Select each of the toggle buttons on the login screen.	Each button should spawn a separate window with the related information.	Let the trainer know of any buttons that do not work before the first training class.	
6	<i>Quick Start</i>	General Information		
7	<i>User Guide</i>	Links to all the User Guide functionalities.	Select some of the links to ensure they are working.	
8	<i>CBT</i>		Ensure this works properly.	
9	<i>Feedback</i>	The Feedback form will be displayed in a separate window. All entries should be blank.	Let the trainer know where this feedback goes to. Send a message to ensure it works properly.	
10	<i>Support</i>	The Broadword Points of Contact page will be displayed in a separate window. All of the entries should be filled with the site POC info.	Ensure the Requirements section has the Site Broadword PM information, this would be the person responsible for adding Change Requests to CMDB. Make sure John Gates is not listed in the Helpdesk section.	

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Step	Operator Input	Expected Results	Comments	Section
11	<i>Project Broadsword</i>	Ensure information is displayed.		
12	<i>Intelink Central</i>	Ensure this works properly		
13	In the Username box, enter a general user account and password, then click on Accept	The default first page will be displayed. Ensure account works.	Make sure only the "Session, Searching, and Help" menus appear on the navigation bar.	Login
14	Click on the Help menu on the navigation bar.	The Help drop down box appears		Help Menu
15	Select each of the menu items and ensure correct data is displayed.		Pay close attention to whether the Demo function works. Links are made to the Demos that are within the CBT. This and the Help functions are not available outside the application. All others should work the same way they did outside the browser.	
16	After closing all Help windows, select Session on the Menu bar. Select Preferences --> Default First Page	The "Default First Page" preference page will appear. The default page is set to "Search Tools".		Preferences
17	Click on Session on the menu bar, select Preferences --> Search Sources.	The "Where and What to Search" page will be displayed.		Sources
18	Check to make sure the four standard plugins and local plugins are in the list displayed	The four standard are: Intelink Hydra, Intelink Meta, MEPED, and Air Force Weather. These should be local to every site.	If they are not there, add them.	
19	Ensure Gatekeeper is registered with a Keymaster	Remote sources should be available.	If not registered, register.	
20	Check all radio buttons and boxes for selectability.	Buttons and boxes show selection changes.		
21	Select all local sources available, to include the four standard. Click on the Apply button.	The page will be re-displayed with the changes.	Make sure to deselect any others that may be pre-selected.	
22	Click on Session on the menu bar, select Preferences --> Search Utilities.	The "Search Utilities" page will be displayed.		Utilities
23	Check all radio buttons for selectability.	Buttons show selection changes.		
24	Select Query and Short form style. Check Apply Synonym Matching . Click on the Apply button	The page will be re-displayed with the changes.	If the Apply button is not enabled, you did not make any changes.	
25	Click on Session on the menu bar, select Preferences --> Results Page.	The "Results Page" will be displayed		Results Page
26	In the top section, for max hits per source, put 10 or less. Display	Changes will show in the section.	More than likely, these will be the default anyway	

Step	Operator Input	Expected Results	Comments	Section
	thumbnails and display results as List .		and no changes will have to be made.	
27	In the lower section, select several of the attribute hyperlinks to ensure they work properly.	A second window will be displayed with detailed information concerning just that attribute.		
28	Also in the lower section, check several attribute boxes under Query Fields . Also Toggle All Hits On using the button at the bottom of the screen.	The page will be re-displayed with the changes.		
29	Click on Session on the menu bar, select Preferences --> Source Required Data .	Any sources, local or remote, that require a separate logon should be displayed with blank cells.	IPL and AMHS are the most common.	Source Required Data
30	Click on Searching on the menu bar. Select Search Tools .	The "Search Tools - Query (Short Form)" page will be displayed with blank fields or pull-down menus.	The number of fields will vary with the source selected.	Short Form Query Results - List
31	Click on several of the attribute hyper-links to ensure they are working.	A separate window should appear with detailed information concerning that attribute.		
32	For the Keyword attribute, put russia* , korea* , or iraq* (try to find out what is on their local imagery database) in the value box. Click on the Search button.	A separately launched "Results of Request" page will be displayed with the results of the query. Results should take between 35-55 seconds only.	If it takes longer than a minute, there is something wrong. If the Apply button is not enabled, click in the grey area somewhere outside of the value box.	
33	Check the summary at the bottom of the Results Page	Several items should be found that meet the search criteria on all but Meta and MIDB.	If any of the sources read "Resource Error" it probably has a wrong URL.	
		MIDB will say "Unsupported query element" and Meta will say it only supports "=".	This is just a check to make sure there was connectivity to those sources.	
34	For any imagery hits, click on the thumbnail and Pull as JPEG unless the only option is Pull as Is	Results should only take between 35-55 seconds. If it takes more than a minute, check the browser and/or workstation settings for viewing images.	Images that were saved as a JPEG will not have the option to pull as JPEG. All others will have the option.	
35	Select a least two images and click Add to Cart .	The page will be re-displayed.		
36	For Intelink items, click on one of the Text Icons . Pull as Is .	A separate window will appear with the associated intelink hit.	If this does not work, there is something wrong with the connection. Check the URL.	
37	For Weather items, click on one of the Text Icons . Pull as Is	A separate window will appear with the associated	If this does not work, there is something wrong	

Step	Operator Input	Expected Results	Comments	Section
		weather image.	with the connection. Check the URL.	
38	For MEPED items, select a hyperlink .	A report should come up.		
39	Repeat Step 17 selecting only imagery sources . At least two (all local and one remote preferably).	After clicking on Apply , window will re-display with changes.		Advanced Query Results - Timeline
40	Repeat Step 22 selecting the Query Advanced Form .	After clicking on Apply , window will re-display with changes.		
41	Repeat Step 25 returning hits as a Timeline .	After clicking on Apply , window will re-display with changes.		
42	Click on Searching on the menu bar. Select Search Tools .	The Advanced Query form should appear. There will be six cells with "No Selection".		
43	Change four of the cells to Target Details Country Code .	"No Selection" will change accordingly.		
44	In the value column, type RS, CH, IZ, KN (one CC per cell). Change the DONE to OR for the first three cells, leaving DONE on the fourth. Click on the Search button.	A separately launched "Results of Request" page will be displayed with the results of the query. The results should be in the Timeline format.	Again, this query should only take 35-55 seconds. However, a remote source could make it take longer.	
45	In the Results Timeline window, click Display Details on one of the products returned.	A separately launched window with the metadata for that hit will be displayed.	Write down a Geo Coord to be used in a later step.	
46	In the Timeline Control window, change the Zoom from AUTO to another zoom level (hours, minutes, etc.) and then click Update Display	The Timeline should form new columns according to the zoom level you chose.		
47	Check the remaining functions of the Timeline Control .	All functions should work fine.		
48	Pull as JPEG one of the images.	A separately launched window will come up with the image blown up.	This should only take about 35-55 seconds. However, a remote source may be longer, but not longer than 90 seconds.	

Step	Operator Input	Expected Results	Comments	Section
49	Repeat Step 17 , changing the query method from Simultaneous to Sequential .	In the "Order to Search" area, enter a number "2" in the first source block and a "1" in the second source block.	After clicking on Apply , window will re-display with changes.	Geo Text Query Results - Map
50	Repeat Step 22 , changing the query form to Geographic Search - Text .	After clicking on Apply , window will re-display with changes.		
51	Repeat Step 25 , returning hits as a Map .	After clicking on Apply , window will re-display with changes.		
52	Click on Searching on the menu bar. Click on Search Tools .	The Geo Text Form will appear in the window with tables in the top half and a list of cells in the bottom half.		
53	In the top half, select at least the Target Details table.	A checkmark will appear next to the table.		
54	In Location Cell put in the Geo Coords from Step 45 . In the radius cell, put 20 and change from Meters to Nautical Miles . Click on the Search button.	A separately launched "Results of Request" page will be displayed with the results of the query. The results should be in the Map format, with icons displayed on the map.	This query should take only about 35-55 seconds. However, remote sources may be longer. No more than 90 seconds with a remote source.	
55	Check the bottom of the Results Page to ensure only one of the sources returned hits. Then click on one of the icons displayed on the map.	Hit information will appear in a separate window in the List format.	You may have to manipulate the map to find your hits. Also, you may have to zoom in to see individual icons.	
56	Repeat Step 22 changing the query form to Geographic Search - Map.	After clicking on Apply , window will re-display with changes.		
57	Click on Searching on the menu bar. Click on Search Tools .	The Geo Map will appear in the window with a map in the upper section and a list of tables below.	If the map does not appear, ensure that maps were loaded. If they were, check to make sure the GNC was put in lower case.	
58	Click on the Find button on the map control bar.	The Geo Find window for finding a Place Name, Airport, or Country will appear in a separately launched window.		
59	In the Place Name cell, type either Pyongyang , Moscow , or Baghdad , limiting the search to respectively for the country North Korea , Russia , or Iraq . Click on the Search button on the bottom of the Geo Find window.	The Geo Find window will disappear and the Geo Find results window will be displayed with a number of hits to the locations that match your request.	Make sure you have the checkbox next to "in country" checked. Also please put the correct country with the Place Name, for instance, you probably won't find Pyongyang in Iraq!	
60	Click on one of the hits provided and click on the " Go to Selection " button.	The map will automatically take you to that location and zoom in.		

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Step	Operator Input	Expected Results	Comments	Section
61	Zoom to a good level centered around your Place Name . Click on the Bookmark button (next to Find).	A dialog box will open asking you to name your bookmark. Give it a name and click Save.		
62	Check the Zoom In, Zoom Out, Area Zoom, Center, and Pan buttons.	Each should function accordingly.		
63	Click on the Bookmark button (next to Find).	Below the Add Bookmark and Edit Bookmark areas, your bookmark should be listed. Click on the link and it should pull you to where you were saved on the Bookmark.		
64	Check the Circle Search function by first clicking on the Circle button. Click once in the center of your Place Name and drag until the desired search area is drawn.	A circle should appear around a center point.		
65	Check the Rectangular Search function by first clicking on the Rectangle button. Then click once in the far upper left of your Place Name drag until the desired search area is drawn.	A rectangular box should appear around your place name.		
66	In the section below the map, select at least the Target Details table.	A check will appear in the box next to the table.		
67	Click the Save Query button at the bottom of the window	A Save dialog box will appear for you to name your query. Save it as User_IVT_Query . Another dialog box will appear confirming the save.	You must use underscore instead of spaces between each word or the Update Profile will not work.	
68	Click on Searching on the menu bar. Click on Saved Queries .	The "Saved Queries" window will appear with the User_IVT_Query listed.		
69	Select your query by clicking in the checkbox to the left of it and click the Edit Batch Profile button at the bottom of the window	The "Edit Batch Profile" window will appear.		
70	Check to make sure the date and time listed is the correct GMT time.		If it is incorrect, check the time of the server.	
71	Change the minutes to plus 4 or 5 minutes from now. Check an imagery source (preferably local) and MIDB . Keep it a Simultaneous search. Click on the Schedule (not OK) button at the bottom of the page.	You will be returned to the "Saved Queries" window. Note the Batch Profile column should have changed from "None" to the date and time of your Batch.		
72	Select your query and click the Edit Update Profile button at the bottom of the window.	The "Edit Update Profile" window will appear.		

Step	Operator Input	Expected Results	Comments	Section
73	For Duration , choose One Day ; for Update Suppression , choose None , for Status , choose Active . Select one or more sources (preferably local) and click OK .	You will be returned to the "Saved Queries" window. Note the Update Profile column should have changed from "None" to "Active".		
74	Click on Searching on the menu bar. Click on Formatted Reports . Click on MIDB .	The "MIDB Report Generator" screen will be displayed.		Formatted Reports
75	Select the local MIDB if applicable. If not, choose another. Select the FACUEQP report and click Next .	A screen with the first section entitled "Filters" will open.		
76	For the Country , select Iraq . For Category Code , type 82100 . Leave the other filters blank.		Leave the Format and Extension sections as they appear.	
77	In the Destination area, enable the first row by checking the box. Fill in the required information and click Request File .	A screen will appear telling you the report has been successfully ordered and to check "Order Status"	You can use the Broadword home directory for the user account you are testing, or use a /tmp directory on the workstation you are using.	
78	Now click on Request View	A separately launched window should appear with the report information.	This may take up to about 30-45 seconds.	
79	Click on Searching on the menu bar. Click on Order Status .	The "Order Status Reports" window will appear. Check for your query status here.	If it is pending (yellow) wait a minute or so and check again later. If it is failed (red), check the message line to find out why and make changes accordingly. Repeat Steps 73-76.	Order Status
80	Click on Searching on the menu bar. Click on Shopping Cart .	The "Shopping Cart" window will appear with a list of your items.		Shopping Cart
81	Click on Edit Group Attributes .	The "Edit Group Attributes" window will appear.		
82	Put your Destination information in the first row and Enable it by putting a checkmark in the appropriate box. Change the Compression from As Is to JPEG . Click Apply .	You will be returned to the "Shopping Cart" window and the Format column should read JPEG.		
83	Select one image and click on the Hyperlink .	The "Edit Individual IPL/5D Order Characteristics" window will appear. Check the destination information for accuracy.		

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Step	Operator Input	Expected Results	Comments	Section
84	For Destination Filename , change it to User_IVT_Shopping_Cart . Click Apply .	You will be returned to the "Shopping Cart" window.		
85	Delete all but the image you saved as UserXX and then click on the Order All button.	You will get a dialog window verifying a successful order and to check Order Status.	This is so we don't have too much coming to the workstation.	
86	Repeat Step 78 .		If the status stays yellow for an extended amount of time (more than an hour), there may be something wrong with it. Try it again.	
87	Click on the Delete ALL button at the bottom of the window	The page will re-fresh with all messages gone.	This is for clean up purposes.	
88	Click on Searching on the menu bar. Click on Profile Notification .	A separately launched "Profile Notification" window will appear. You should have one Batch and at least one or more Update.	The Updates are done on the top and bottom of every hour.	Profile Notification
89	Click on the Batch notification.	The Results Page should be displayed with the hits in the List Format. Check the summary at the bottom for total hits.	Check out any errors for this Batch. Zero hits is okay, just no errors.	
90	Click on an Update notification.	More than likely, a response of "No Hits for this Interval" will be displayed.	If you don't have any updates, check to make sure your saved query did not have any spaces. Spaces will cause the update not to work.	
91	Once successful, click on Multiple Select Mode . Select all items and click on the Delete Selected button.	This will clear out the Profile Notification window.	This is for clean up purposes.	
92	Click on Searching on the menu bar. Click on Saved Queries . Click on Delete ALL at the bottom of the window.	This will clear out all Saved Queries.		Finish Clean Up
93	Go to the Destination you had sent your image and MIDB report .			
94	Pull the report and the image to ensure it worked properly.	The image should come up as a JPEG almost immediately. The MIDB report may have to be opened in WordPad.		
95	Delete both the image and MIDB report from the Destination.	The /tmp directory or Broadsword home directory should no longer show the items.		
96	Click on " Session " on the menu bar. Click on " Exit ".	This will log you out of Broadsword and the Browser.		

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Step	Operator Input	Expected Results	Comments	Section
97	Click on “Logout” in the top frame.	A window will appear asking if the operator is sure he/she wants to end the session.		Logout
98	Click on “Yes, Logout” .	User will be logged out and the Broadsword Login page will be displayed.		
99	On the browser File menu, click on Exit .	The browser will terminate.		
100	Log off from your terminal session.			End of test case

Trusted Transfer Agent (TTA) Verification Test Procedures

This section contains procedures to verify that the installation and configuration of the Trusted Transfer Agent (TTA) was performed correctly, and that the basic query, pull to view, batch query, geographic query, sequential query, simultaneous query, and product request/transfer functions are operational via the TTA. These tests were written to run consecutively. Deviation from this sequence can produce errors. A list of prerequisite steps has been identified and will need to be satisfied prior to execution of the site acceptance tests.

The test procedure sheets are organized into four columns, as follows:

- a. Step - This column contains an Arabic numeral that gives each step in the procedure a unique identifier.
- b. Operator Input - This column describes the exact action to be performed by the operator.
- c. Expected Results - This column describes the expected result of the operator input. Unless otherwise noted, all observed results must be exactly as described in the expected results column. The Test Operator records any exceptions in either the Comments column or the Broadsword Test Packet.
- d. Comments - This column is used primarily for expanding on the Operator Input or Expected Results columns. Trouble shooting comments can be found here along with references to prerequisite steps, if applicable.

The tester should execute the steps described in the test procedure and maintain a formal test log to chronologically record events relevant to the testing. If failures occur they should be categorized based on the priority levels below.

- a. Priority 1 - Critical Problem. This category encompasses problems that are serious enough in nature to bring testing to a halt, or an accumulation of less critical problems that indicate degradation of the integrity of the test has progressed to the point that the test must be stopped.
- b. Priority 2 - Major Problem. This category encompasses problems that cause a loss of efficiency or effectiveness in the ability to complete the test being executed.
- c. Priority 3 - Minor Problem. This category includes those anomalies, which are, in fact, a problem, but have insufficient impact to warrant discontinuance of testing. For an anomaly to fit this category, it cannot affect the results of the test being performed or any future tests.

Once categorized, all software problems found during this testing should be recorded as Software Problem Reports (SPRs) in accordance with the Common User Baseline for the Intelligence Community (CUBIC) Configuration Management Plan for Broadsword/TTA.

Corrective action, as a result of an SPR generated during this testing, depends on how the problem was categorized. A Priority 1 SPR requires that the software development organization

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correct the problem prior to the continuance of testing. A Priority 2 SPR requires a decision by the Test Director as to whether a software fix is required before continuing with security certification testing. A Priority 3 SPR does not require a software fix during security certification testing.

The following test steps will require executing queries or geographic searches against one or more low side sources accessible through the TTA system. Each source supports these search mechanisms differently and it is important that the tester understands what each source supports and what each provides in the way of results and products. In addition to recognizing the differences between sources stated above, it is necessary that the tester realizes that not all Broadsword accessible sources are available via TTA. Table 2.0 lists the different sources that TTA supports through queries, as well as the query types that are supported. TTA also requires that all products requested be returned as one complete product, not allowing for file extraction of multi-file products.

Source	Geographic Search			Query
	Point	Circle	Polygon	
IPL v1.0	✓ Target Details, Image Only	✓ Target Details, Image Only	✓ Target Details, Image Only	✓
IPL v2.1	✓ Target Details, Image Only	✓ Target Details, Image Only	✓ Target Details, Image Only	✓
IPL v2.5	✓ Target Details, Image Only	✓ Target Details, Image Only	✓ Target Details, Image Only	✓
5D	✓ Target Details Only	✓ Target Details Only	✓ Target Details Only	✓
MIDB	✓ Not Image	✓ Not Image	✓ Not Image	✓
IESS	✓ Target Details, Image Only	✓ Target Details, Image Only	✓ Target Details, Image Only	✓
MEPED	N/A	N/A	N/A	✓
AODB	N/A	N/A	N/A	✓
Air Force Weather	N/A	N/A	N/A	✓
FIRES	✓ Facility Only	✓ Facility Only	✓ Facility Only	✓
Intelink Meta	N/A	N/A	N/A	✓
Intelink Hydra	N/A	N/A	N/A	✓

N/A – Utility Not Available

Table 2.0 TTA Source Listing

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TTA Site Acceptance Test	
Test Date: _____ Test Start: _____ Operating System: _____ Test Stop: _____	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
<p>Prerequisites: The following prerequisites need to be met prior to running any of the subsequent tests:</p> <ul style="list-style-type: none"> The previous Broadsword Site Acceptance Tests needs to be run in its entirety prior to the execution of these TTA Site Acceptance Tests. Both the High Side Broadsword configuration and the Low Side Broadsword configuration should be tested, independent of any cross-domain TTA functionality, prior to beginning this test. Both the High side and Low side TTA Gatekeepers need to be registered with the High Side and Low Side Keymasters, respectively. (Reference: Broadsword 3.1 SSAA, 15 Feb 02, Test Set No.3; Test Procedure 2, Section 1 – Register TTA High Gatekeeper with the Keymaster and Section 2 – Register TTA Low Gatekeeper with the Keymaster). Connectivity between the ISSE Guard and the High side and Low side TTA systems needs to be verified. (Reference: Broadsword 3.1 SSA, 15 Feb 02, Test No. 3, Test Procedure 1, Section 1 – Verify FTP is Locked Down; Steps 8 – 15 and 27 – 34). Low side sources need to be accessible on the TTA High side Gatekeeper. (Reference: Broadsword 3.1 SSAA, 15 Feb 02, Test No. 3, Test Procedure 2, Section 3 – Force the Source Updates). 	

Step	Operator Input	Expected Results	Comments	Section
Section 1 – Logon to Gatekeeper				
1.	Log onto a High Side workstation that has been configured to interface to the Broadsword High Side Gatekeeper , which is configured to interface to the High Side TTA Gatekeeper . Method will vary by workstation type.	User will be logged into Broadsword High Side workstation		Workstation
2.	On the High Side workstation , start the browser. Method will vary by workstation type.	The browser will open in a separate window.		Browser
3.	In the Browser window, in the location area, enter the URL ([host name or IP address]: port number) of the Broadsword High Side Gatekeeper and press "Enter".	A second browser window will appear stating "Initializing Broadsword..." Along with a dialogue box which will state "Close Window"		IP and Hostname
4.	Click the OK Button.	The Broadsword Login page will be displayed.		
5.	In the Username box, enter a valid	The main page will be		Login

Step	Operator Input	Expected Results	Comments	Section
	userid and password for broadsword user then click on “ Accept ”.	displayed		
Section 2 - Performing a Query via TTA				
6.	Click on “ Session ” on the menu bar, → “ Preferences ” → “ Search Sources ”.	The “Where and What to Search” page will be displayed.		Short Form Query Results
7.	Click on a Low side source (that supports GeoSearch), click the “ Apply ” button.	The “Where and What to Search” page will be redisplayed with changes.	All low side sources that are accessible through TTA are denoted by the tag (LOW), which is displayed after each source name.	
8.	Click on “ Searching ” in the menu bar, → “ Search Tools ”.	The “Query” page will be displayed.		
9.	On the Query form, enter a query that is known to produce a result. Click on the “ Search ” button.	The “TTA Query Verification” page displays the search criteria.		
10.	Review the “TTA Query Verification” message. Click on the “ Accept ” button to confirm the query’s content displays the intended criteria.	The “Results of Request” page will be displayed with the results of the query. Verify appearance of thumbnails. Note: Completion of this step may take a few seconds to a few minutes depending on the sources selected and network throughput.	Successful completion of this test step verifies that query functionality via the TTA is operational. Copy down a few <i>Geographic Coordinates</i> for use in an upcoming section.	
Section 3 - Performing a Pull To View via TTA				
11.	Pull to view a product by clicking on the thumbnail of a product displayed in the result list.	Product is downloaded and a viewing application is launched displaying the product. Note: Completion of this step may take a few seconds to a few minutes depending on the sources selected and network throughput.	Successful completion of this test step verifies that pull to view functionality via the TTA is operational.	Pull To View Results
Section 4 - Performing a Batch Query via TTA				
12.	In the High side Broadsword browser window, save the query performed in the previous section by clicking the “Save Query” button.	User will be prompted to enter a name for the saved query.		Batch Query
13.	Enter a name for the saved query. Click “ OK ”.	The user will be presented with a window stating the query has been saved successfully.		
14.	Click on “ Searching ” in the menu bar, → “ Saved Queries ”.	The “Saved Queries” page will be displayed. A list of all saved queries will be		

Step	Operator Input	Expected Results	Comments	Section
		presented to the user.		
15.	Select the query just saved by clicking on the checkbox to the left of the query name. Select the “Edit Batch Profile” button on the bottom of the page.	The query selected will open for editing.		
16.	Schedule a time for the batch query to run, approximately 3 minutes later than the actual system time. Identify a Low side data source to search against and click on the radio button to the left of the source. Select the “Schedule” button on the bottom of the page.	The “TTA Query Verification” page displays search criteria.	All low side sources that are accessible through TTA are denoted by the tag (LOW), which is displayed after each source name.	
17.	Review “TTA Query Verification” message. Click on the “Accept” button to confirm the query’s content displays the intended criteria.	The “Saved Queries” page will be redisplayed.	Allow time for query to run.	
18.	Under “Searching” on the menu bar, select “Profile Notification”	The “Profile Notification” page displays the recent batch queries by name.		
19.	Click on the applicable query name.	Query results are displayed. Verify results originated from the selected low side source. Note: Completion of this step may take a few seconds to a few minutes depending on the sources selected and network throughput.	Successful completion of this test step verifies that batch query functionality via the TTA is operational.	
20.	Click “Close” button to close result window.	Window closed		
Section 5 - Performing a Geographic Query via TTA				
21.	Under “Session” on the menu bar, → “Preferences” → “Search Utilities” , select the “Geographic Search” utility (text version) and click the “Apply” button.	The “Search Utilities” page will be redisplayed with changes.	This test supports the verification of a Geo – Text Query performed on a Low side source that is accessible through TTA.	Geo Text Query Results
22.	Click on “Searching” in the menu bar, → “Search Tools” .	The “Geographic Search (Text)” page will be displayed.		
23.	On the Geo-Search form, enter a table to be searched and a valid search region that is known to produce a result. Click on the “Search” button.	The “TTA Query Verification” page displays search criteria.		
24.	Review “TTA Query Verification” message. Click on the “Accept” button to confirm the query’s content displays the intended criteria.	The “Results of Request” page will be displayed with the results of the query. Verify appearance of thumbnails. Note: Completion of this step may take a few seconds to a	Successful completion of this test step verifies that geographic query functionality via the TTA is operational.	

Step	Operator Input	Expected Results	Comments	Section
		few minutes depending on the source selected and network throughput.		
Section 6 - Performing a Sequential Query via TTA				
25.	Under “ Session ” on the menu bar, → “ Preferences ” → “ Search Utilities ”, select the “ Query ” utility and click the “ Apply ” button.	The “Search Utilities” page will be redisplayed with changes.		Sequential Query Results List
26.	Under “ Session ” on the menu bar, → “ Preferences ” → “ Search Sources ”, select the query method labeled “ Sequential ”, select a High and a Low side source. Set the Low side source as the primary search source (01), and the High side source as a secondary search source (02). Click the “ Apply ” button.	The “What and Where to Search” page will be redisplayed with changes identifying a sequential search where a Low side source will be searched first, and the High side source will be searched second.	All low side sources that are accessible through TTA are denoted by the tag (LOW), which is displayed after each source name.	
27.	Click on “ Searching ” in the menu bar, → “ Search Tools ”.	The “Query” page will be displayed.		
28.	On the Query form, enter a valid query that is known to produce a result. Click on the “ Search ” button.	The “TTA Query Verification” page displays search criteria.		
29.	Review “TTA Query Verification” message. Click on the “ Accept ” button to confirm the query’s content displays the intended criteria.	The “Results of Request” page will be displayed with the results of the query. If there were any products available on the Low side, they will be marked as such under the Query Status section of the page and the High side source would not have been accessed. If there were no results returned from the Low side source then the query status will display zero hits from the Low side source and a status of hits returned from the High side source. Note: Completion of this step may take a few seconds to a few minutes depending on the sources selected and network throughput.	Successful completion of this test step verifies that sequential query functionality via the TTA is operational.	
Section 7 - Performing a Simultaneous Query via TTA				
30.	Under “ Session ” on the menu bar, → “ Preferences ” → “ Search Sources ”, select the query method labeled “ Simultaneous ”, select a High and a Low side source. Click	The “What and Where to Search” page will be redisplayed with changes identifying a simultaneous search where a Low side and	All low side sources that are accessible through TTA are denoted by the tag (LOW), which is displayed after each	Simultaneous Query Results List

Step	Operator Input	Expected Results	Comments	Section
	the “Apply” button.	the High side source will be searched.	source name.	
31.	Click on “Searching” in the menu bar, → “Search Tools”.	The “Query” page will be displayed.		
32.	On the Query form, enter a valid query that is known to produce a result. Click on the “Search” button.	The “TTA Query Verification” page displays search criteria asking the user to authorize the enclosure for release.		
33.	Review “TTA Query Verification” message. Click on the “Accept” button to confirm the query’s content displays the intended criteria.	The “Results of Request” page will be displayed with the results of the query. Under the Query Status section of the page, it will identify all the hits returned from the High and Low side sources. Note: Completion of this step may take a few seconds to a few minutes depending on the sources selected and network throughput.	Successful completion of this test step verifies that the simultaneous query functionality via the TTA is operational.	
Section 8 - Performing a Product Request via TTA				
34.	Advance through the list as necessary to view the hits returned from the Low side source. Order one product originating from the Low side by selecting the checkbox under the “Add to Cart” column and clicking the “Add to Cart” button.	Product is added to the shopping cart.		Product Request – Receiving Order Status
35.	Click on “Searching” in the menu bar, → “Shopping Cart”.	The “Shopping Cart” page will display information specific to the product you requested.		
36.	Click on the product name hyperlink. Verify the destination path of the product you requested. If necessary, add a filename for the product. Click “Apply” button.	The “Order Characteristics” page will display information specific to the product you requested. <i>The Hostname or IP Address should be that of the Broadword High platform, and the Path should be /tmp</i>		
37.	Select the “Order All” button	A window with the message “Ordering Complete” will be displayed.		
38.	Click the “OK” button.	The “Ordering Complete” window will close.		
39.	Click on “Searching” in the menu bar, → “Order Status”.	Verify successful transfer. Note: Completion of this step may take a few seconds to a few minutes depending on the	Successful completion of this test step verifies that the order status functionality via the TTA is operational.	

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FINAL

Step	Operator Input	Expected Results	Comments	Section
		source selected and network throughput.		
40.	On the High side Broadsword client workstation, open a terminal window.	Terminal window will be displayed.		
41.	Execute the following on the command line: % cd /tmp % ls -al <product filename>	The working directory is changed. The directory listing will contain the product you requested.		
42.	Check the date and time on the file.	The doc id, date and time stamp on file verifies the successful transfer of requested product.	Successful completion of this test step verifies that the product transfer functionality via the TTA is operational.	

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