

Joint Aviation Technical Data Integration (JATDI)

USER'S GUIDE FOR THE JOINT KNOWLEDGE CACHING SERVER 3.5



March 17, 2003

JATDI User Training Class Objectives

Upon completion of this class you should be able to:

- Understand the concept and data flow of JATDI and JKCS.
- Access and use the Joint Knowledge (JK) Search website.
- View technical manuals electronically.
- Access the JATDI website to obtain information on JATDI and Platform websites.
- Request User/Customer support from the JATDI Team

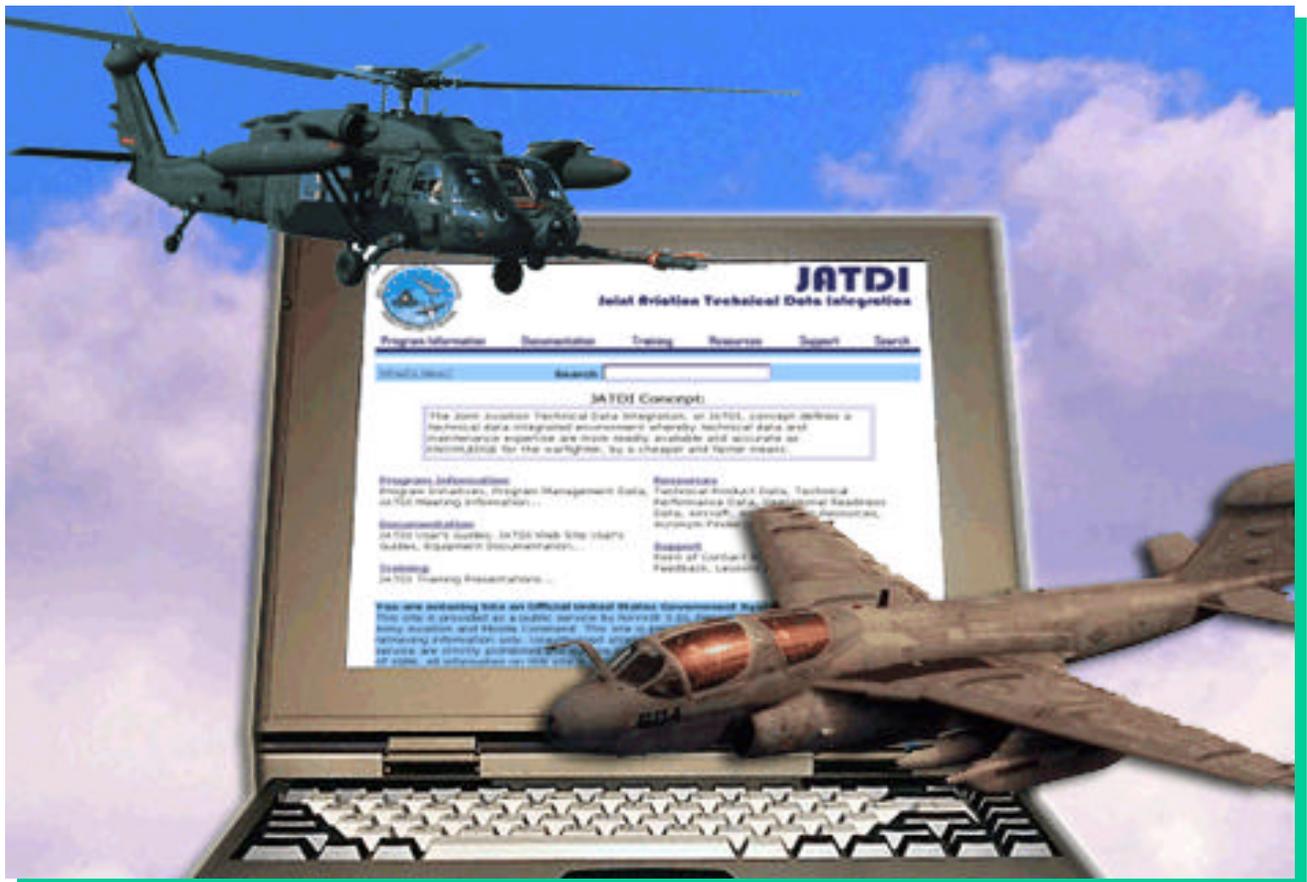


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1 Joint Knowledge Caching Server (JKCS)

1.1 Purpose

The purpose of this guide is to document use of the client software portion of the JATDI Joint Knowledge Caching Server (JKCS) functionality. Within JKCS, clients are those machines used to view Technical Manuals (TMs) and other technical data.

1.2 Background

The JKCS is one part of JATDI and is under the direction of Naval Air Systems Command (NAVAIR). The technical data client/server is designed to meet one of the objectives of the JATDI program: to deliver electronic updates of Department of Defense (DoD) aviation technical data to the war fighters. The benefits of using the JKCS set-up are improved distribution, timeliness, and reduced reproduction and distribution cost.

The JKCS hardware consists of a server and client devices (workstations, laptops, and Personal Electronic Display Devices (PEDDs)), which connect to the JKCS to access information.

The JKCS software consists of an application ("JK Update"), which automatically pulls TMs from a server and stores them locally. In addition, there is a web-based interface ("JK Search"), which provides searchable, on-demand access to technical data. This guide focuses on the use of JK Search and on viewing TMs.

Joint Aviation Technical Data Integration (JATDI) is a web based "knowledge resource" which provides war fighters with an easy, accessible tool for researching and obtaining data required to support their mission. Data includes technical manuals, engineering drawings, logistics, configuration management, job performance aids/videos, checklist, and safety messages. The JATDI mission is to create an integrated technical data environment whereby digital technical data, training, and maintenance information is more readily available and accurate, as **Knowledge** for the war fighters, by an intelligent, faster, and less expensive means.

The JATDI objectives are to permit rapid and seamless information whenever needed, wherever needed and for whomever needed across the Army, Air Force, and Navy/Marines ("Services").

1.3 Client Software Configurations

In context of JKCS there are two possible client software configurations:

- A client may be configured to view TMs only as needed and not to store them locally. Such a client must be connected to the network to view TMs. This is a typical configuration for a workstation.
- A client may be configured to view TMs as needed *and* store them locally. Such a client can be disconnected from the network while still allowing access to the locally stored TMs. This is a typical configuration for portable computing devices such as laptops and PEDDs. During training practices, the only time these devices *are* connected to the network is when their local TMs are being updated.

1.4 Data Flow

TM data flows from NATEC to the JATDI server to the client machines. This data flow is specific to Navy JATDI users, however, the data flow process for other services will be similar.

On a regular basis (typically every night) the JATDI server wakes up and contacts NATEC to see if new or updated TMs are available. If so, the server pulls the new TMs from NATEC and makes them available on its website. In some cases, such as in shipboard installations, the server may connect more sporadically or may be updated by CD instead.

Later that night, the client devices wake up and contact the JATDI server and repeat the process. If the JATDI server has new or updated TMs the clients pull them down. Once the clients have been updated they can be detached from the network and deployed as needed throughout the work areas. In cases where the server is updated less frequently, the clients are typically updated manually rather than automatically.

1.5 Client Hardware

Currently, there are 3 types of client devices in use in the JKCS project: workstations, laptops, and PEDDs.

A workstation is a typical desktop PC. Usually, no JKCS software is installed on a workstation. Instead, a standard web browser is used to search for TMs on the JATDI server. TMs are viewed using the Adobe Acrobat Reader browser plug-in.

A PEDD (Portable Electronic Display Device) has JKCS software installed on it, which pulls TMs from the JATDI server and stores them locally. Instead of having a keyboard, the PEDD uses an on-screen virtual keyboard for text input. Instead of having a mouse, the PEDD uses a stylus for cursor positioning and data entry.

1.6 Using The JK Search website

1. Access the JK Search website

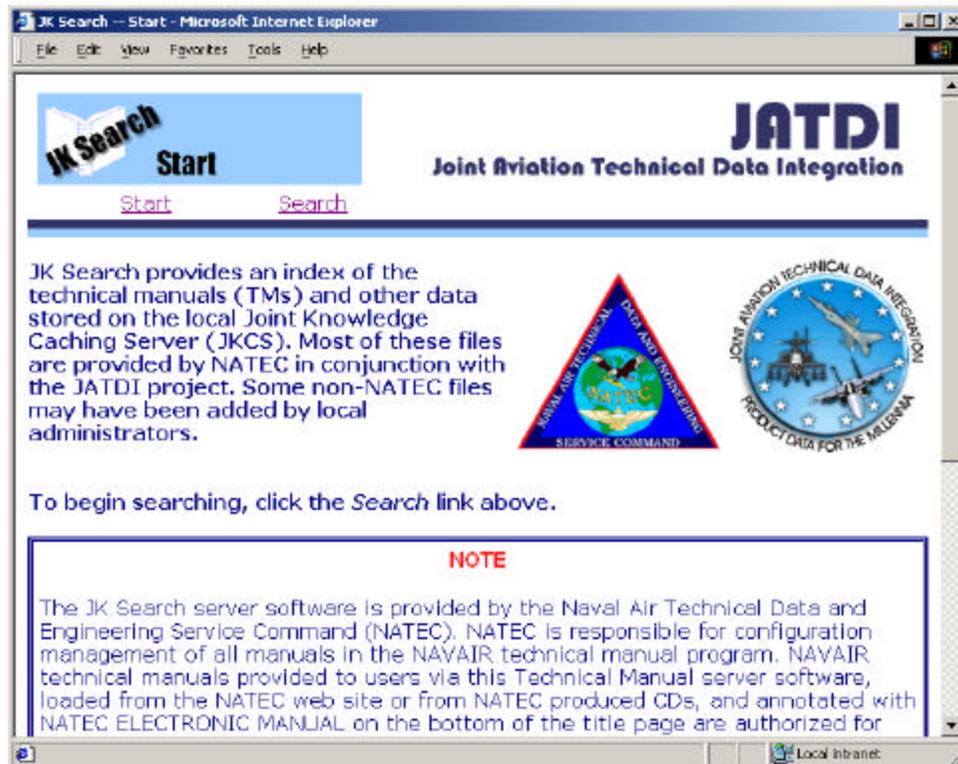
- Make sure the computer is connected to the network.

- Double-click on the JK Search icon on the desktop:



NOTE: Not all workstations will have the icon. Please contact your CTPL for access information.

- The web browser connects to the JATDI server.
- The JK Search Start page is loaded into the web browser.



2. Access the Search page.
 - Click the underlined “Search” link near the top left side of the page
 - The Search page allows for searches using any combination of five different search fields: Manual Number, Manual Title, Platform, Most Recently Updated, and by Database.

JK Search -- Search - Microsoft Internet Explorer

File Edit View Favorites Tools Help

JK Search **Search**

[Start](#) [Search](#)

Please enter search criteria then click the **Search** button. Last update: unknown.

If you enter criteria in multiple fields only manuals matching *everything* you type will be returned. A match occurs if what you type can be found *anywhere* within the corresponding database field.

Manual Number:

Manual Title:

Platform:

Added/changed in last days

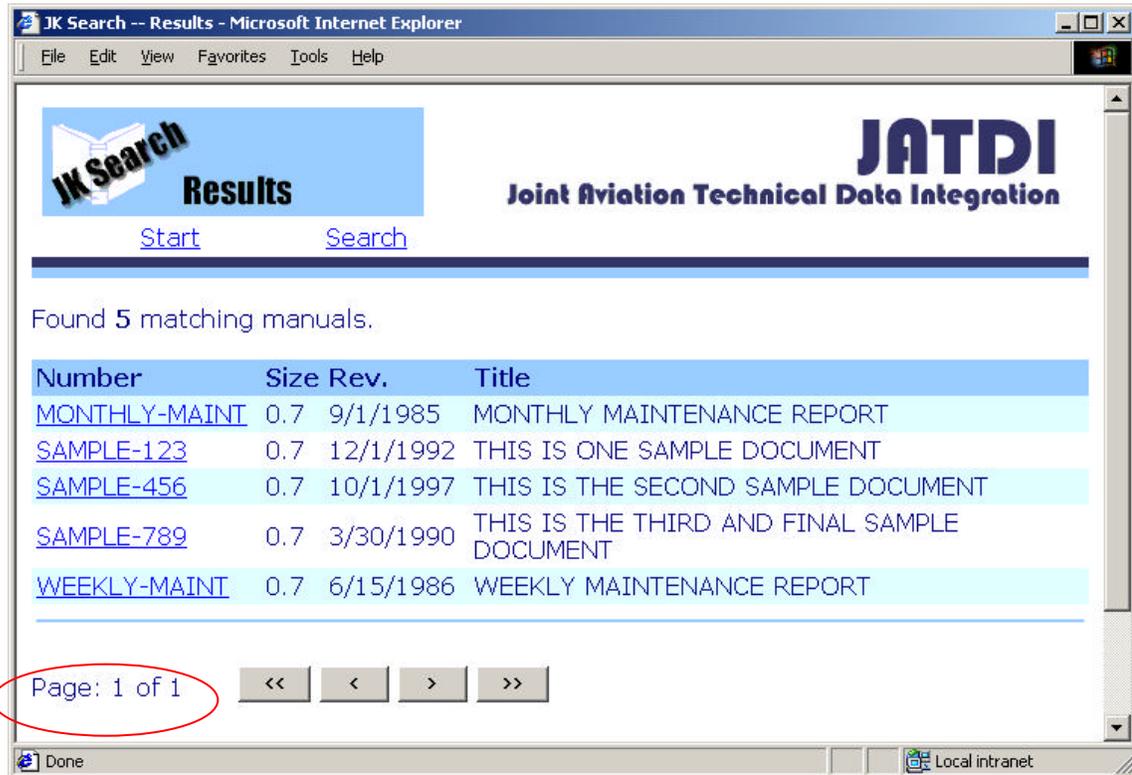
Databases: All NATEC IOLs Local

Local intranet

3. Search by Manual Number.
 - Enter a manual number or part of a manual number in the Manual Number search field.
 - Click the Search button.
 - A list of matching TMs appears.
 - If the “No matching manuals found” message appears, try entering different search option.
 - The Reset button can be used to clear all entry fields.
 - Click the browser’s Back button (or click the underlined “Search” link near the top of the page) to return to the Search page.

4. Search by Manual Title.
 - Enter a manual title in the Manual Title search field.
 - Click the Search button.
 - A list of matching TMs appears.
 - If the “No matching manuals found” message appears, try entering a different search option.
 - The “Reset” button can be used to clear all entry fields.
 - Click the browser’s Back button (or click the underlined “Search” link near the top left side of the page) to return to the Search page.
5. Search by Platform.
 - The Platform search field is a dropdown list containing broad categories of equipment. The list varies depending on which TM directories are available on the JATDI Server.
 - Click the down-arrow next to Platform to display the dropdown list.
 - Click one of the choices in the list to select it.
 - Click the Search button to see a list of matching TMs.
 - Click the browser’s Back button (or click the underlined “Search” link near the top left side of the page) to return to the Search page.
6. Search for most recently updated technical manuals.
 - The “Added/changed...” search field can be used to search TMs by age of update. For example, typing 90 into the field would list TMs which were added or updated in the last 90 days.
 - Type a number into the “Added/changed...” search field.
 - Click the Search button to see a list of matching TMs.
 - Click the browser’s Back button (or click the underlined “Search” link near the top of the page) to return to the Search page.
7. Search by database.
 - The “Databases” search field can be used to limit the databases, which are searched.
 - The default (“All”) will perform the search against all databases.
 - If “NATEC IOLs” is selected only NATEC Outfitting List databases will be searched.
 - If “Local” is selected only the local TM database will be searched.
 - Click the browser’s Back button (or click the underlined “Search” link near the top left side of the page) to return to the Search page.

8. View search Results page.
 - With the criteria entered in the search field(s), the JK Search Results page will display successful matches.
 - The arrow keys at the bottom of each Results page allow for paging forward and backward through the results.
 - The lower left-hand corner of the Results page shows the current results page number and the total number of pages of results (see circled area below):



9. Use the search Results page navigation buttons.

- To view the first page of search results, click:



- To view the previous page of search results, click:



- To view the next page of search results, click:



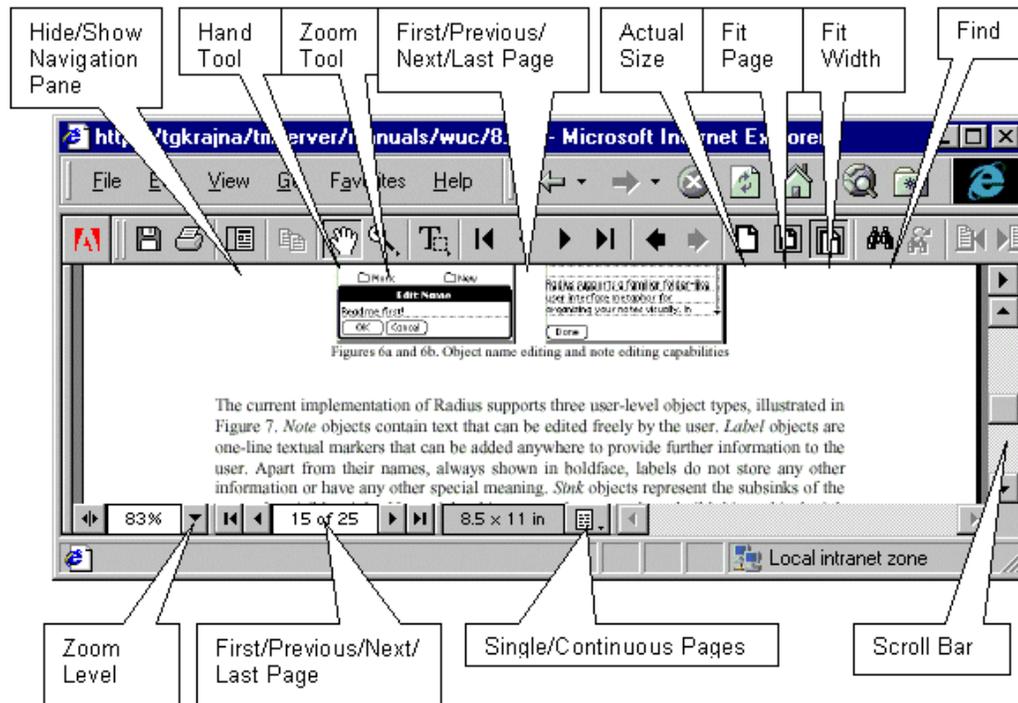
- To view the last page of search results, click:



NOTE: If there is only one page of results, the displayed Results page will not change when the arrow keys are clicked.

10. View a TM.

- Click on a TM Number displayed on the Results page to view the manual.
- The manual is displayed in the browser using Adobe Acrobat Reader.
- Buttons and controls are displayed above and below the document for navigation:



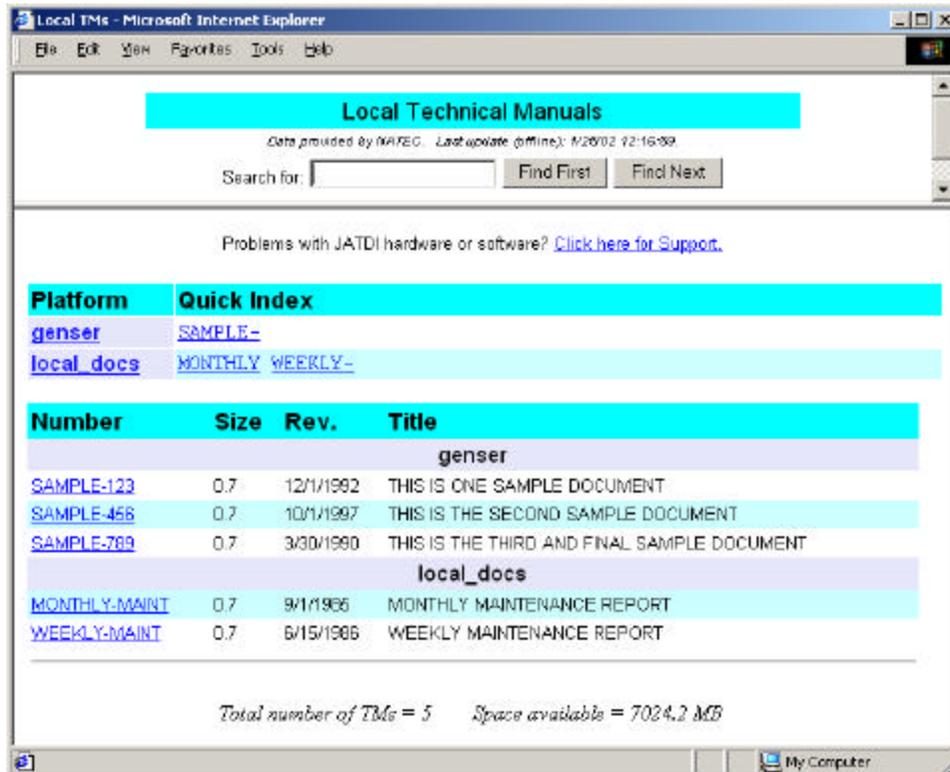
- The Hide/Show Navigation Pane determines whether the left-hand navigation pane is displayed.
- The Hand Tool and Zoom Tool provide two alternative cursor behaviors. The Hand Tool allows the document to be “dragged around” the window, while the Zoom Tool increases magnification with each new mouse click.
- To zoom back out, click the Actual Size, Fit Page or Fit Width icons. The Zoom Level dropdown menu can also be used to change the zoom level.
- Click the browser’s Back button to return to the Results page.

1.7 Viewing Local TMs

1. View the list of Local TMs (manuals which are physically stored on the local computer).

- Double-click on the Local TMs icon on the desktop: 

NOTE: Not all workstations will have the icon. Please contact your CTPL for access information.
- The Local Technical Manuals web page displays the available TMs:



2. View a TM.
 - Click on a TM Number to view the manual.
 - The manual is displayed in the browser using Adobe Acrobat Reader.
 - Click the browser's Back button to return to the Local TMs web page.
 - See [Section 1.6 \(Step 10\)](#), "View a TM", for further details.
3. Search for a TM.
 - Type part of the TM Number or TM Title into the "Search for" box.
 - Click the Find First button to scroll to the first occurrence of that text.
 - Click the Find Next button to scroll to the next occurrence of that text.
 - Click the browser's Back button (or click the underlined "Search" link near the top of the page) to return to the Search page.

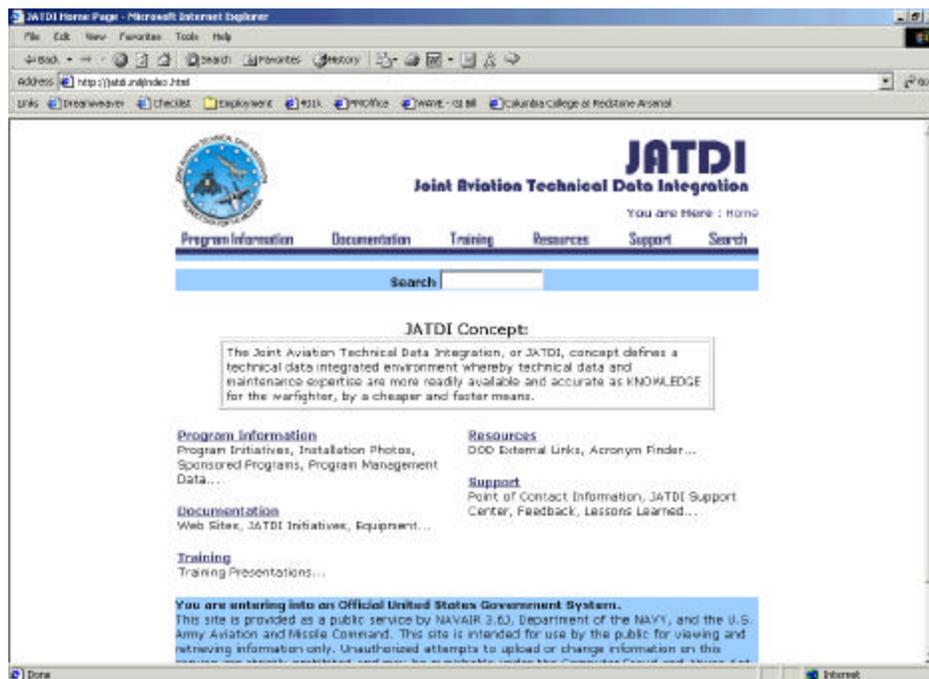
4. Use the Platform and Quick Index columns.
 - Click one of the platform links in the Platform column to scroll to the start of the TMs listed under that platform.
 - Click one of the partial TM Number links in the Quick Index column to scroll to the first TM that matches.
 - Click the browser's Back button (or click the underlined "Search" link near the top of the page) to return to the Search page.

2 JATDI Websites

The following sections depict the types of screens and data sources that are available through the various JATDI supported websites. The JATDI Team is adding data sources continuously so the actual screens may have more information available, however the general look and feel will remain constant.

2.1 JATDI Website

From any workstation with Internet connectivity and a web-browser, enter "<http://jatdi.mil>" in the URL address and the following JATDI homepage will be displayed.

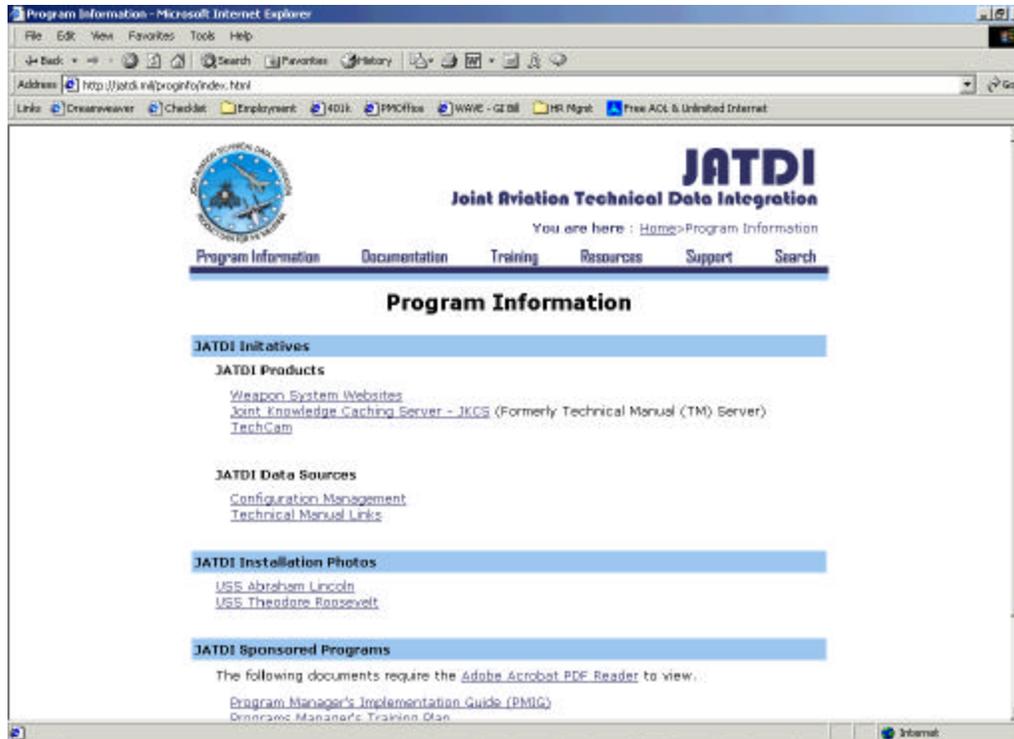


The JATDI website is divided into five sections. A description of each section is provided in this document.

- Program Information
- Documentation
- Training
- Resources
- Support
- Search

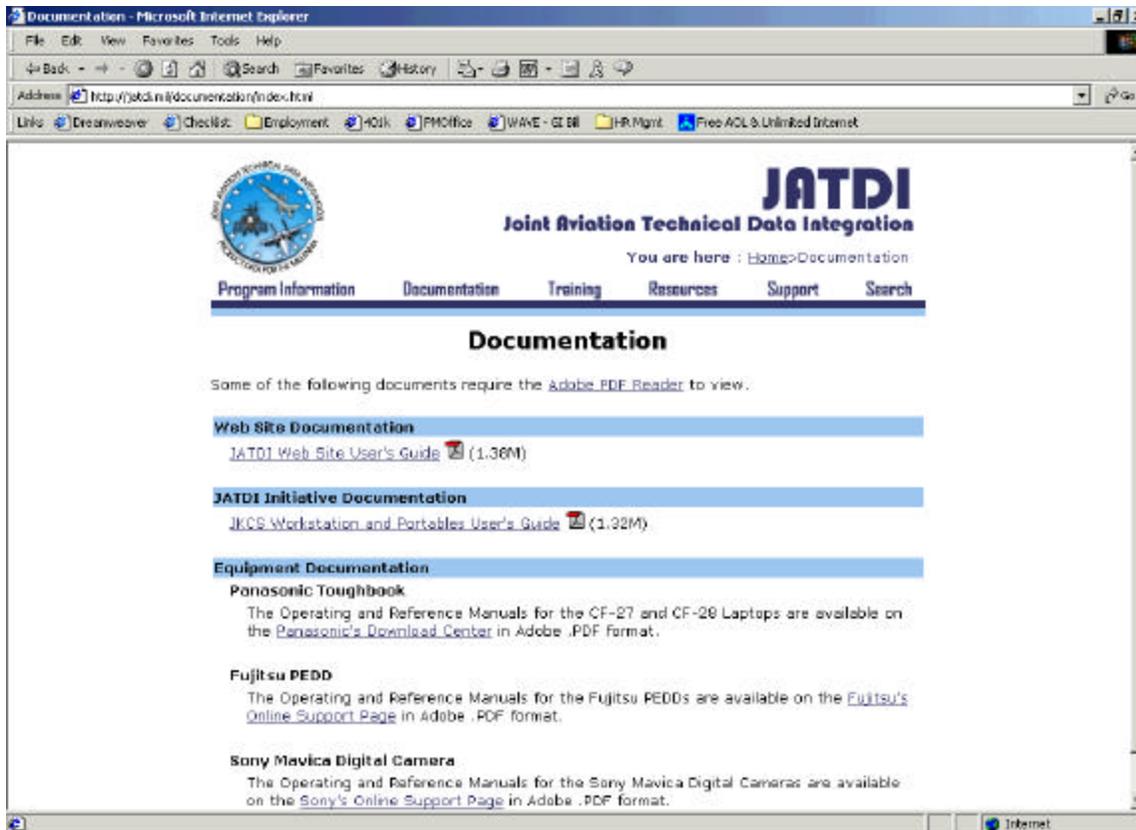
2.1.1 Program Information

The JATDI Program Information page is divided into four sections: JATDI Initiatives, JATDI Installation Photos, JATDI Sponsored Programs, and Project Data, which provides an overview of all the initiatives under the JATDI project.



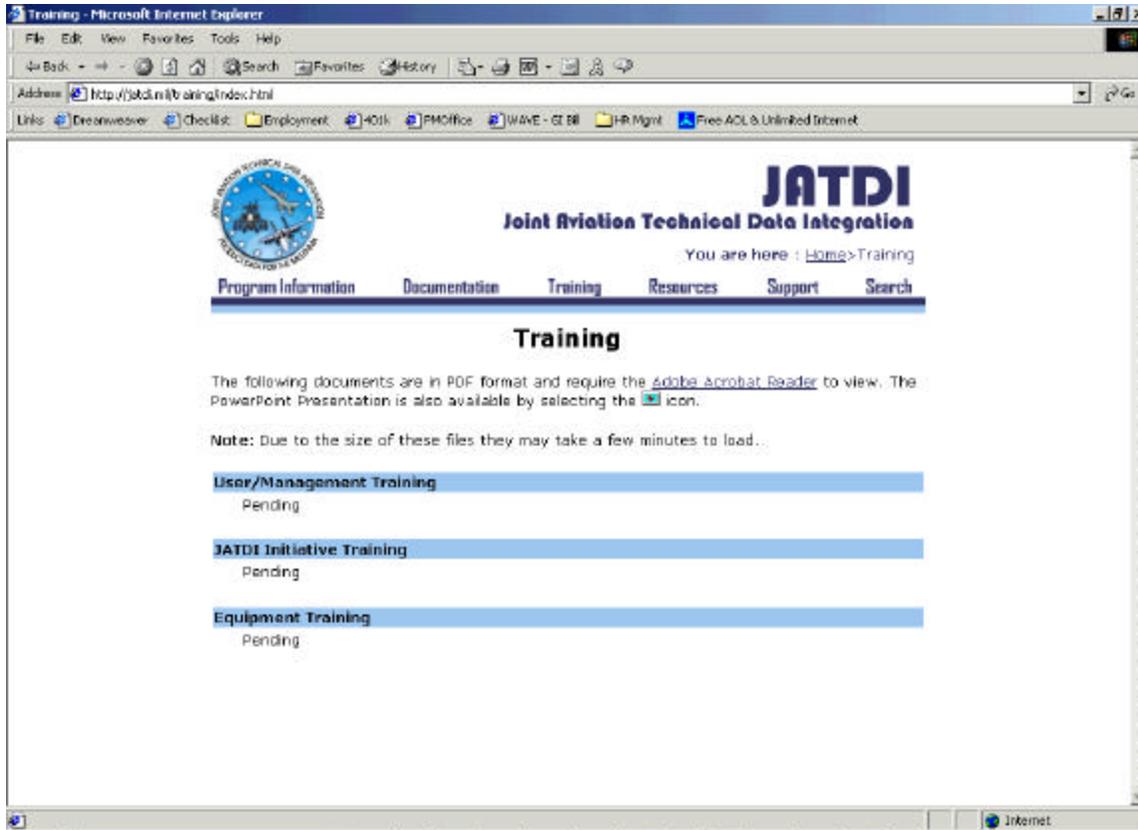
2.1.2 Documentation

The JATDI Documentation page contains documentation relative to the JATDI project. You can access information regarding JATDI Website documentation, JATDI Initiatives, and Equipment Documentation.



2.1.3 Training

The JATDI Training page contains training information related to the JATDI program. You can access the JATDI Training documentation on an as needed basis to refresh your skills and knowledge of JATDI functionality.



2.1.4 Resources

The JATDI Resources page contains links to websites that have information (knowledge) relative to aviation Platforms.



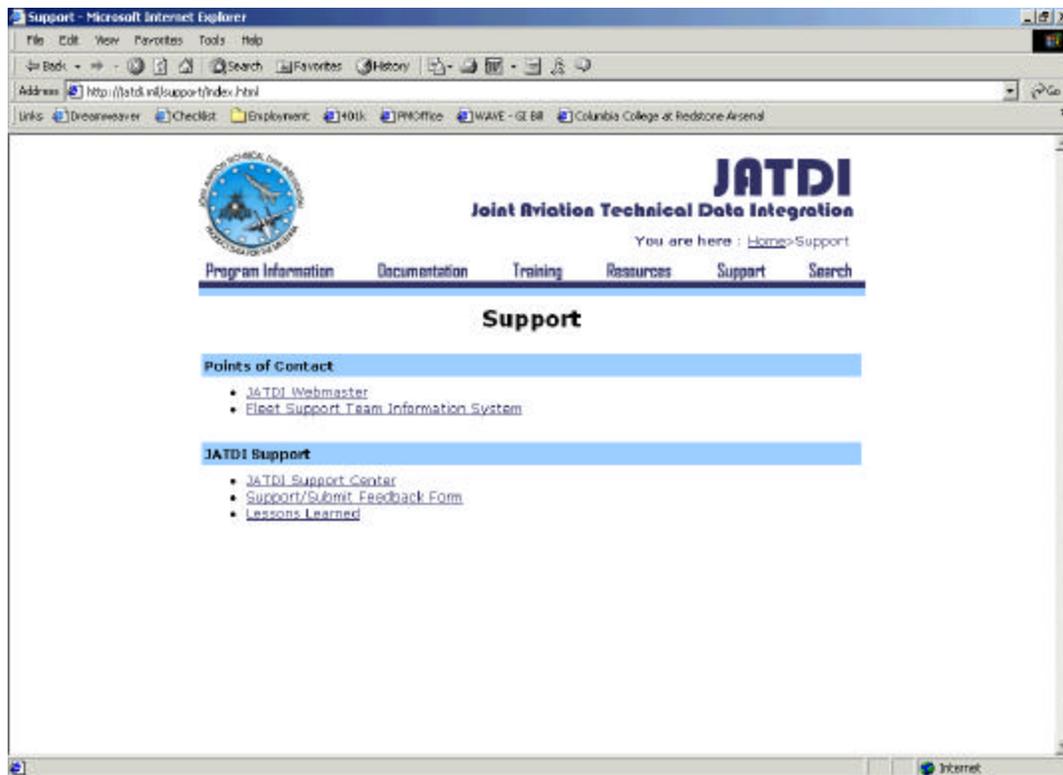
2.1.5 JATDI Support

The JATDI Support page contains links for the JATDI Webmaster, the Fleet Support Information System, the Support/Submit Feedback Form and the Lessons Learned Form.

The JATDI Support Center link provides the necessary information required when requesting user support using the toll free number within the USA. Phone: 1-800-633-7248

The Support/Submit Feedback Form is used to report problems or information related to JATDI hardware or software. This information is sent to the JATDI Program Office.

The Lessons Learned page contains questions and answers that relate to JATDI. This page may be useful to answer general questions for the JATDI Project.



2.1.6 JATDI Search Capability

The JATDI Search page provides the capability to search the JATDI website for specific information.



If you desire information related to the specific aircraft platforms that JATDI supports, select the Search Joint Weapon Systems link. This option has a significant search capability that will search across all of the weapon system sites it has catalogued and will return with the results categorized by type of digital data. The user can further select any particular item from the search results and be directly connected to the referenced document, IF the security process authorizes the user, to see the results.



This section on using the JATDI website has been a representative example of how the user can navigate to find detailed results. It is not possible to display every type of screen or capability contained within the application because there are literally thousands of permutations in selection capabilities and millions of pages of selected results for on-line viewing.

2.2 JATDI Platform Websites

The website below is included in this document to provide a general look and feel of the JATDI supported platform websites. All platform websites will generally have the same layout. Information will be group into specific categories: Reference, Media, Training, Safety, Resources, Support, Search, and Supply, although not every website supported by JATDI will contain all these different categories of information. Available categories containing information is determined by the Platform's Program Office.

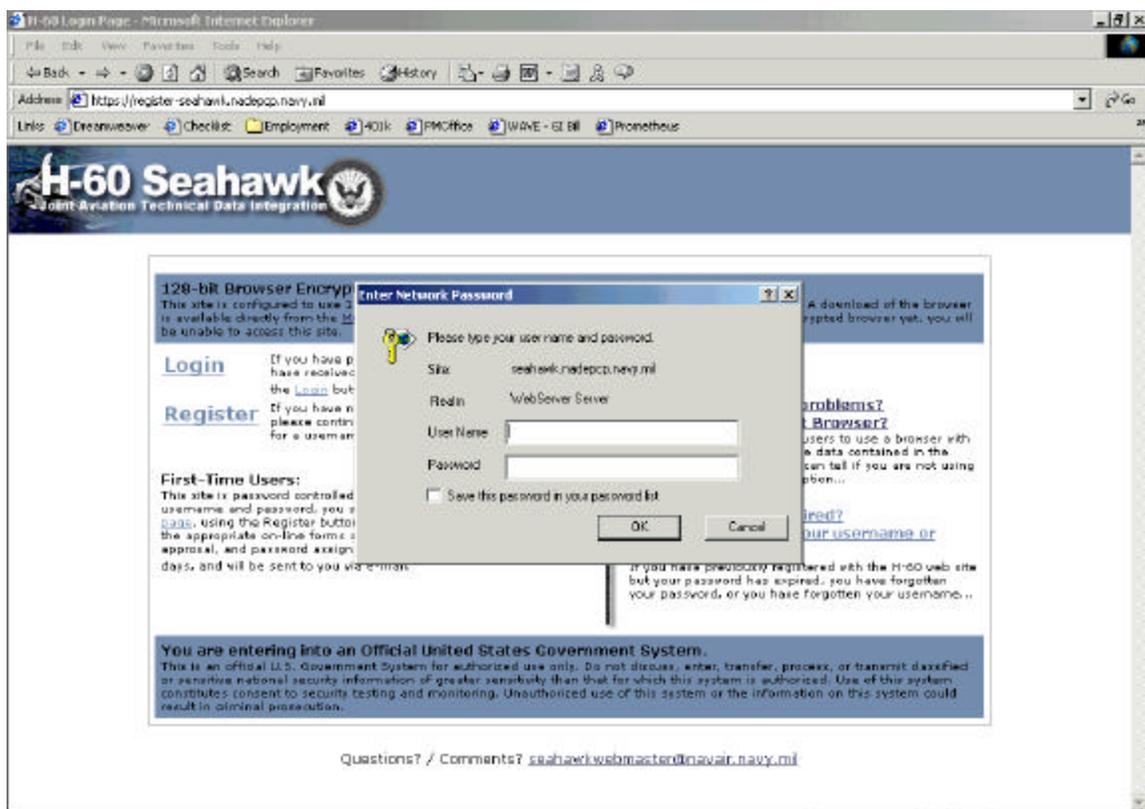
A listing of all Platform websites is available on the JATDI website at <http://jatdi.mil/proginfo/initiatives/techprod.html>.

2.2.1 Login/Register

Access to Platform websites requires a user name and password. If a user name and password has been obtained, the user will select Login. If a user name and password has not been obtained, the user must select Register to submit a registration request to the site administrator.

Once the registration is approved, the user will receive an email with their user name and instructions on how to request a password.

All of the weapon systems under the JATDI project have similar screens and/or authority requirements before the user can enter the site and obtain all of the digital data that is available.



2.2.2 Home Page

The following sections discuss the types of information available through the JATDI supported websites. While this is an example of the Navy Seahawk website, the majority of the JATDI websites have similar data available for on-line retrieval by authorized users.



2.2.3 Reference

Select the Reference tab. The following page will display.



The Reference page may contain Publications, IETMs, Technical Manuals, Technical Bulletins, Newsletters, Information on Conferences, and access to various programs or databases that contain information related to the specific aircraft.

2.2.4 Media

Select the Media tab. The following page will display:



The Media Page may contain Videos, Images of the specific aircraft, or Virtual Tours that allow the user to view a 360' photo.

Note: The videos are in RealPlayer format. If RealPlayer is not installed, please contact your System Administrator for installation of the RealPlayer Application.

2.2.5 Training

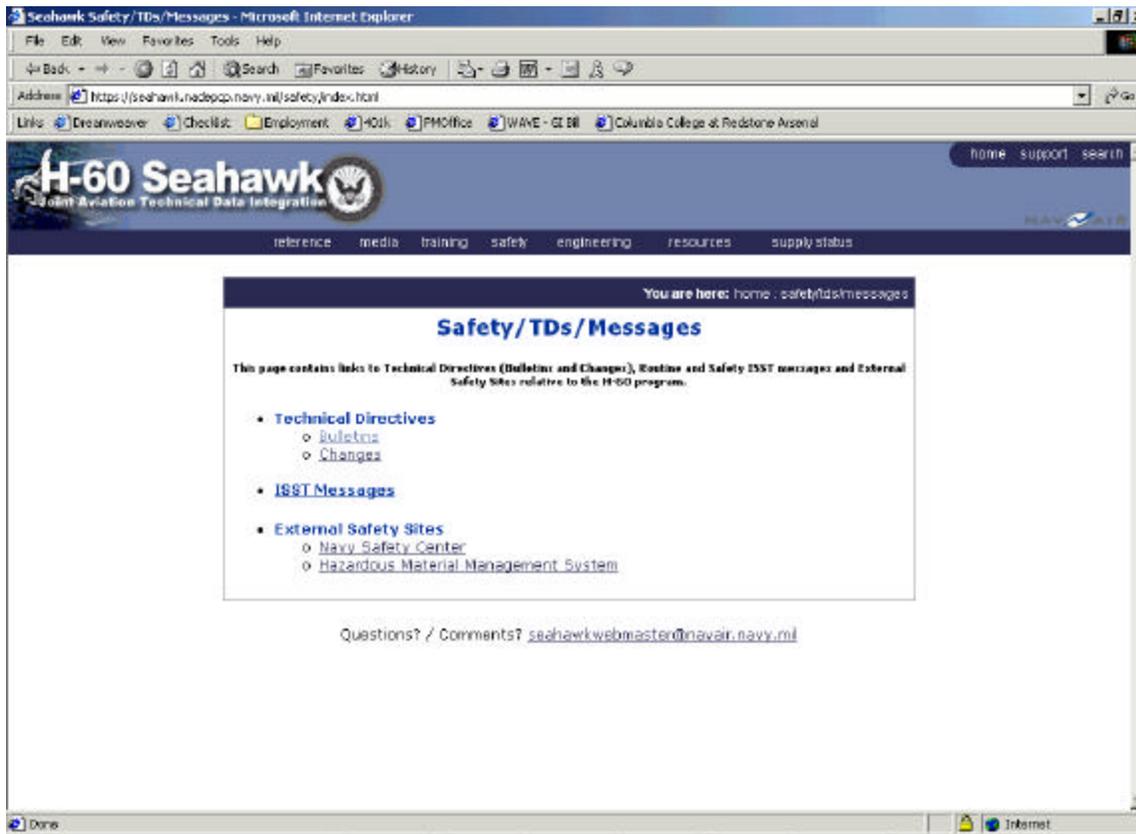
Select the Training tab. The following page will display:



The Training page will provide access to different types of documentation related to training. They may range from Training Documentation to on-line, computer-based training related to the specific Platform.

2.2.6 Safety

Select the Safety tab. The following page will display:

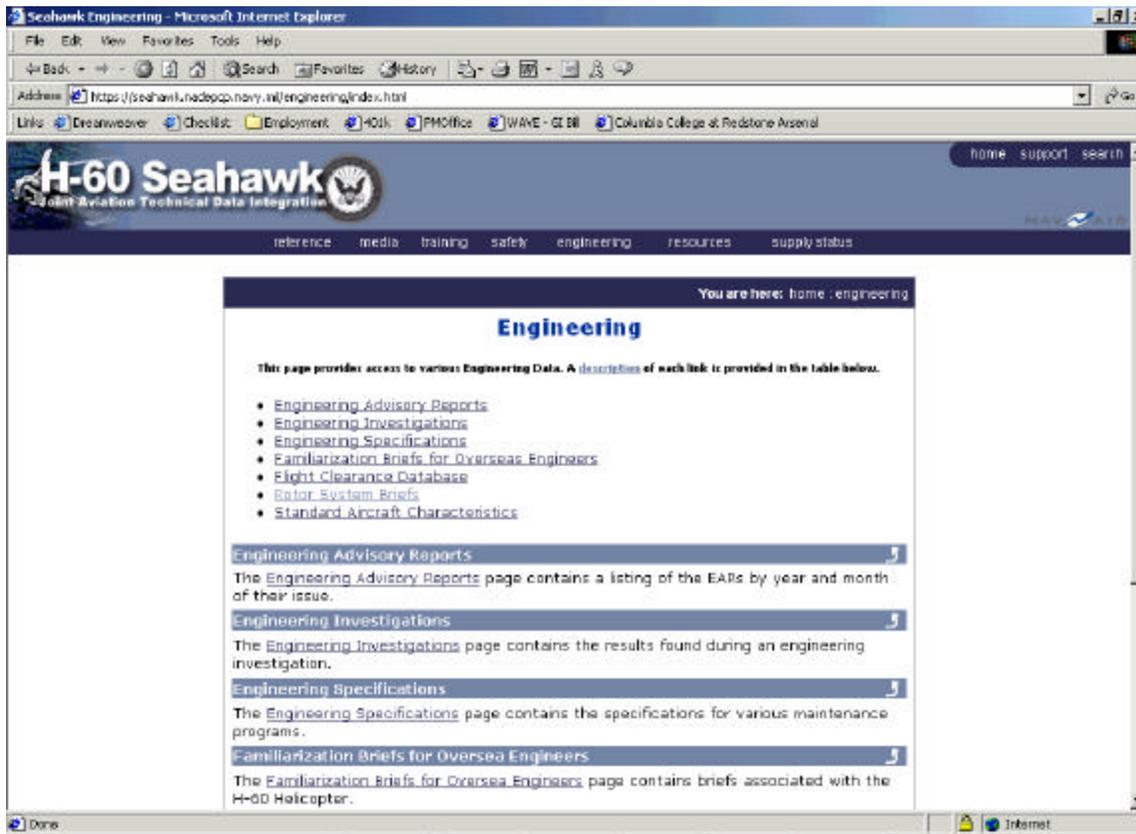


The Safety page may contain a multitude of Safety Information. It may range from Technical Directives, such as Bulletins and Changes to external Safety Sites, such as the Navy Safety Center. If the user selects the external site they are immediately linked to the Navy Safety Center's webpage.

NOTE: The appearance of hyperlinks does not constitute endorsement by the Department of Defense or the U.S. Navy of the website or the information, products, or services contained therein. For other than authorized activities such as military exchanges and morale, welfare, and recreation sites, the Department of Defense or the U.S. Navy does not exercise any editorial control over the information you may find at these locations. Such links are provided consistent with the stated purpose of this DOD website.

2.2.7 Engineering

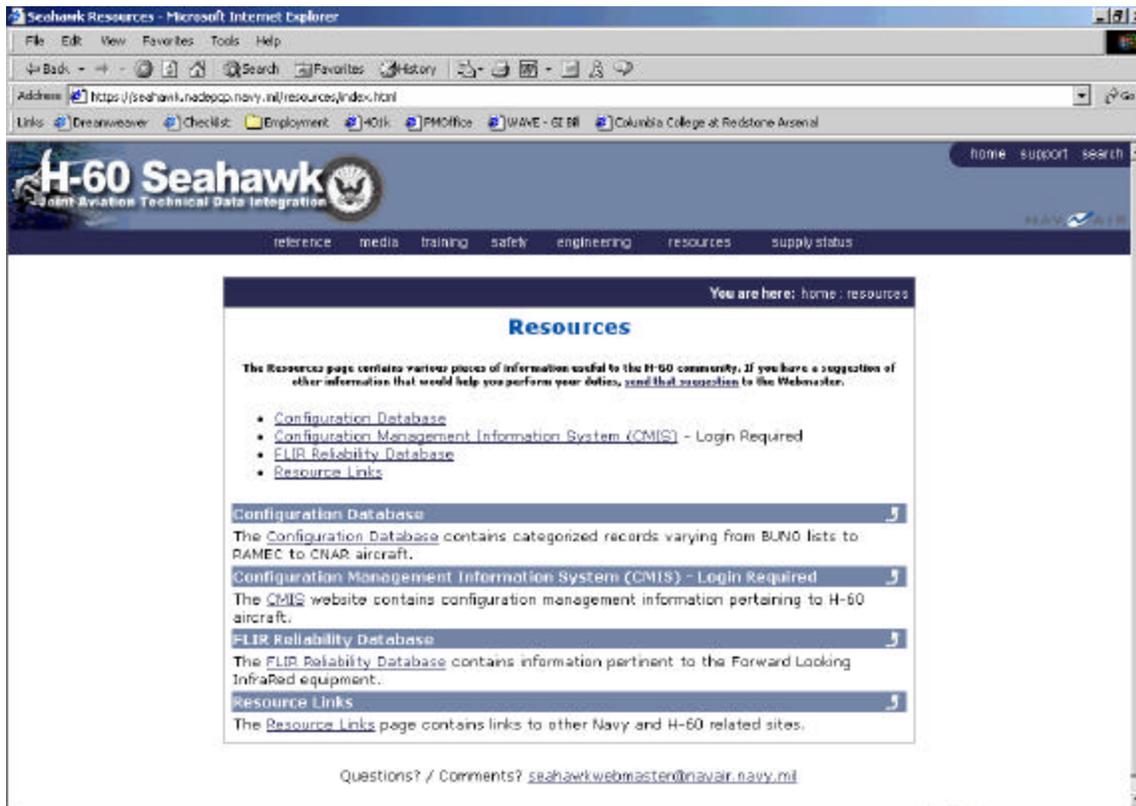
Select the Engineering tab. The following page will display:



The Engineering Page may contain various types of engineering information. This may range from Engineering Advisory Reports, Drawings, or links to specific Engineering Databases. Some of these links may also require different access rights so not all users will be able to view them.

2.2.8 Resources

Select the Resources tab. The following page will display:

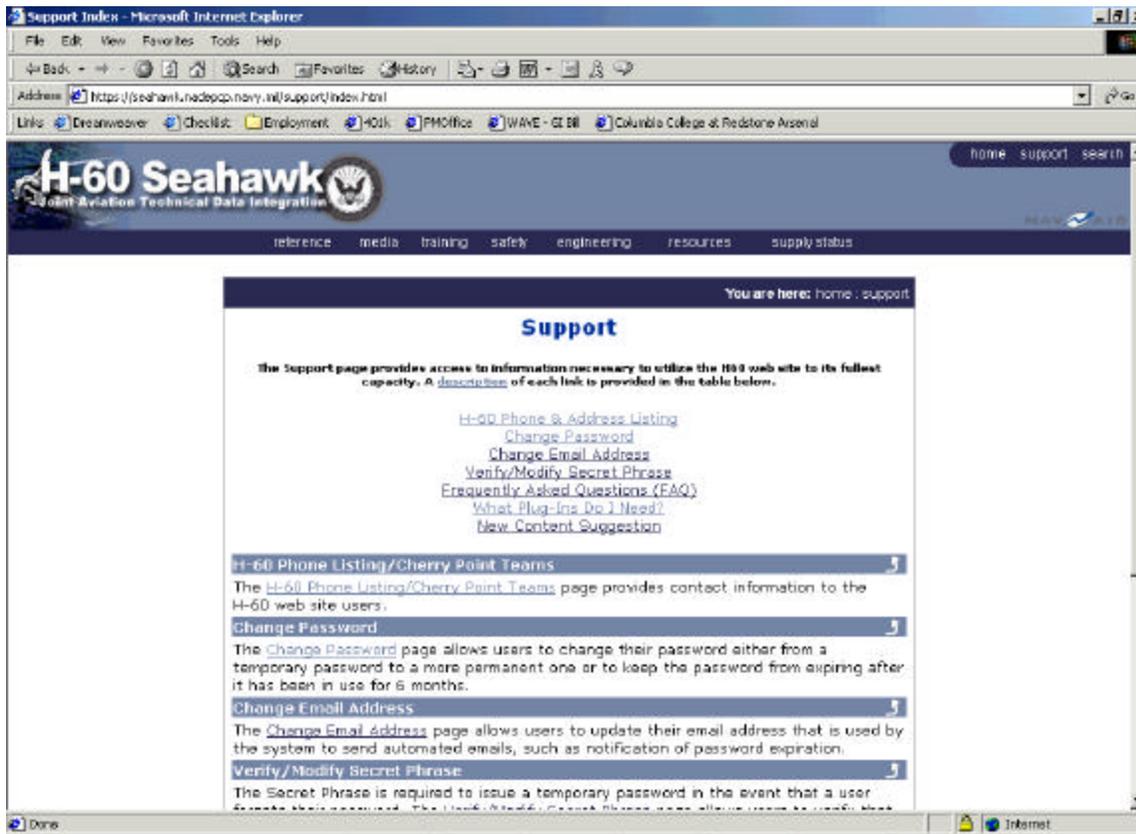


The Resource Page contains links to resources for the specific platform. Some of these resources may be contained within an external website and with a click, the user is linked, through JATDI, to these particular websites, which may require an additional login/password.

NOTE: The appearance of hyperlinks does not constitute endorsement by the Department of Defense or the U.S. Navy of the website or the information, products, or services contained therein. For other than authorized activities such as military exchanges and morale, welfare, and recreation sites, the Department of Defense or the U.S. Navy does not exercise any editorial control over the information you may find at these locations. Such links are provided consistent with the stated purpose of this DOD website.

2.2.9 Support

Select the Support tab. The following page will display:

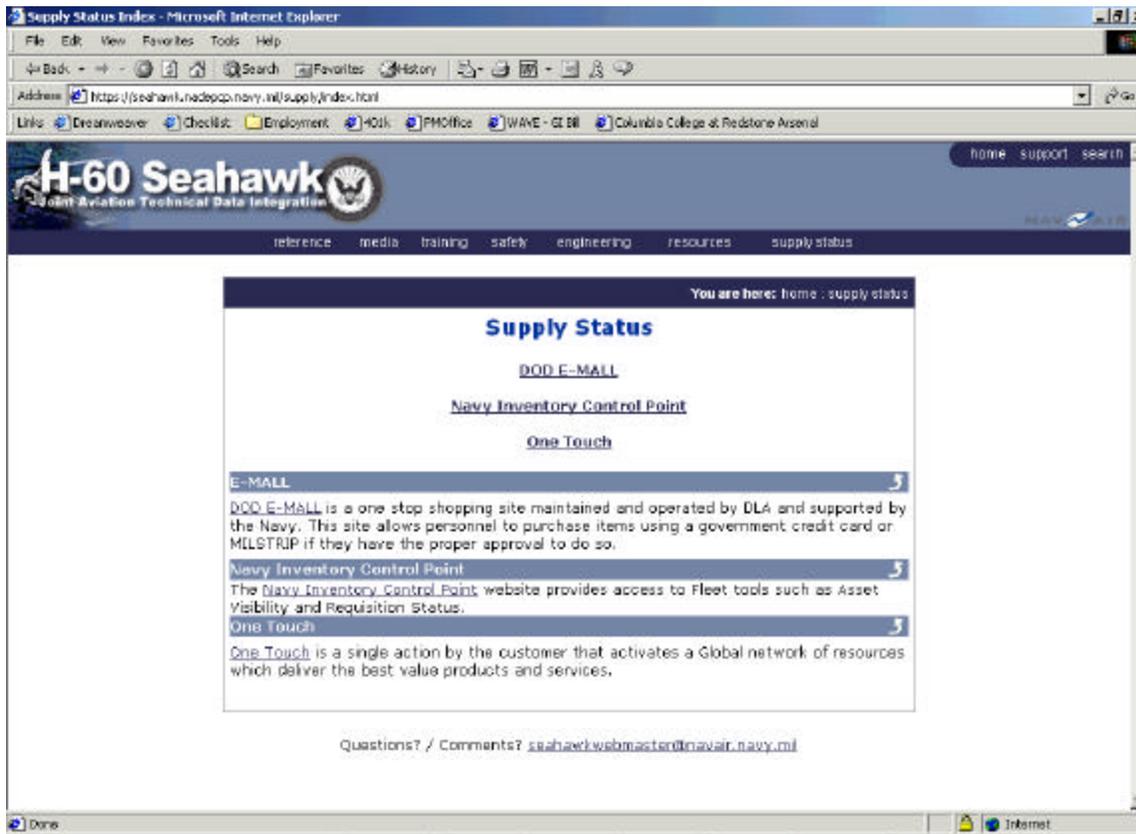


The Support page provides information concerning Points of Contact for the specific Platform. This section also provides the user the ability to change their password, e-mail address, and to verify or modify their secret phrase, look up frequently asked questions, find out what “Plug-Ins” are necessary to operate within the JATDI environment and to provide suggestions as to the content of the website and any changes that would make it a more user friendly and helpful environment.

NOTE: For JATDI Program Specific Support, please refer to Section 3 of this Users Guide.

2.2.10 Supply Status

Select the Supply Status tab. The following page will display:



The Supply Status page provides the user with the capability to link to other, web pages. With a click, the user is linked, through JATDI, to these particular websites.

NOTE: The selected websites may require login with a user name and password.

2.2.11 Search Capability

Select the Search tab. The following page will display:



JATDI has a significant search capability across all of the weapon system sites it has catalogued. By selecting the weapons platform, type(s) of digital data desired, and entering any desired keyword, the search will return with the results categorized by type of digital data. The user can further select any particular item from the search results and be directly connected to the referenced document. This information may be located on another site or in a location that requires a higher access level.

This section on using the JATDI website has been a representative example of how the user can navigate to find detailed results. It is not possible to display every type of screen or capability contained within the application because there are literally thousands of permutations in selection capabilities and millions of pages of selected results for on-line viewing.

3 JATDI Program Support

To ensure protocol is followed when reporting problems with JATDI, the end-users should contact the site CTPL via electronic means, prior to contacting JATDI Customer Support. The following information should be provided to the CTPL.

- Subject:
- Name:
- Unit/Squadron:
- Rank:
- Platform:
- System:
- Hardware:
- Hardware Serial Number:
- Description of Problem:

The JATDI Team is dedicated to providing the warfighters with near real-time digital data when needed and where needed. Your feedback is critical to our success with meeting your requirements and providing world-class customer support.