The MIDAS Web Site: Continuing to Meet the Challenge

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by

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Welcome to the MIDAS Web Site *(http://midas.dac.army.mil)*

**MIDAS is an ongoing program managed by the U.S. Army Defense Ammunition Center (DAC), with software support provided by Argonne National Laboratory.**

Key Information Available on the MIDAS Web Site
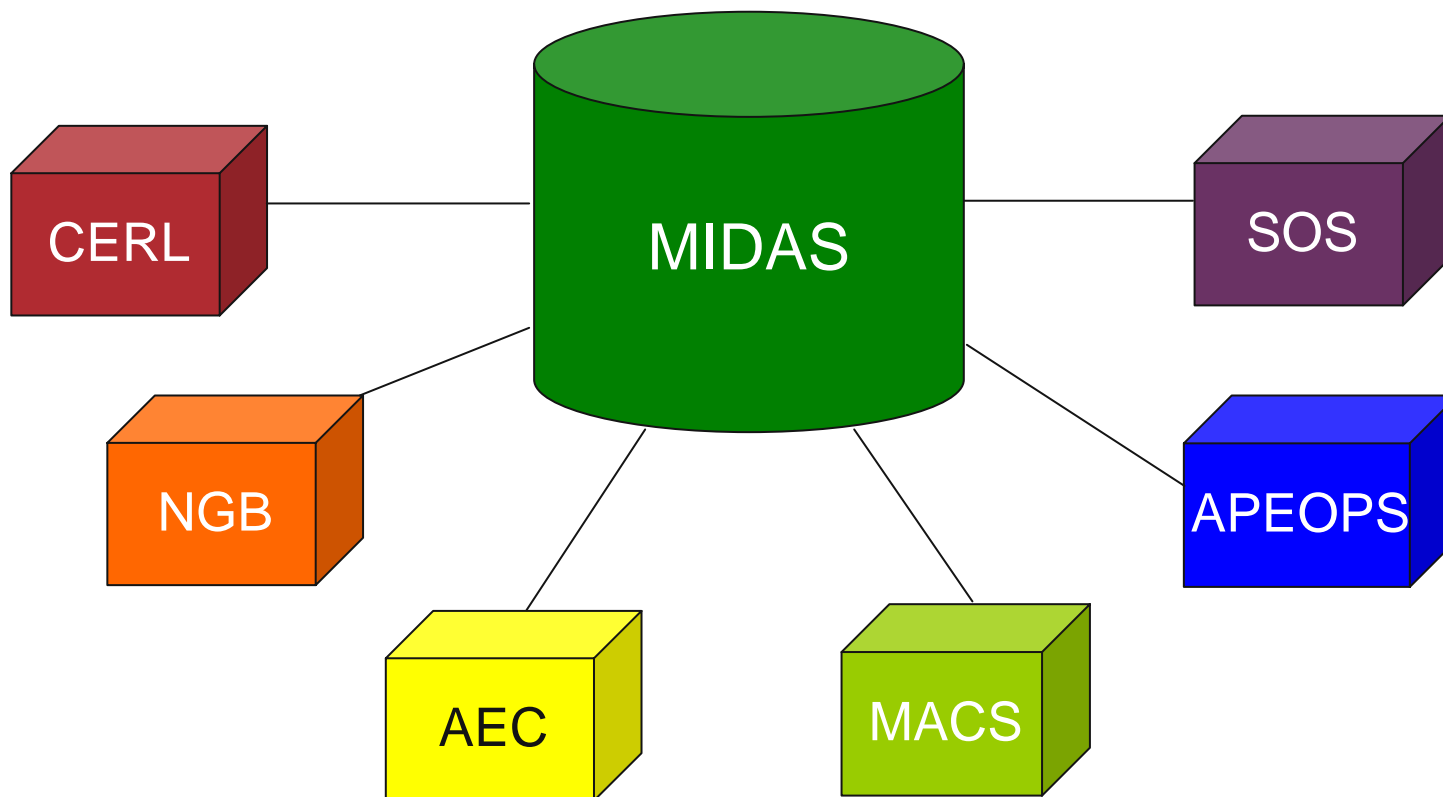
- **Detailed structure of a munition (components, parts, materials, and compounds)**

- **Usage of specific compounds, materials, parts, or components**

- **Total weight of each compound in a munition**

- **Wide range of output reports**

- **Links to related systems**

Overall, the Web Site is Organized into Four Main Areas
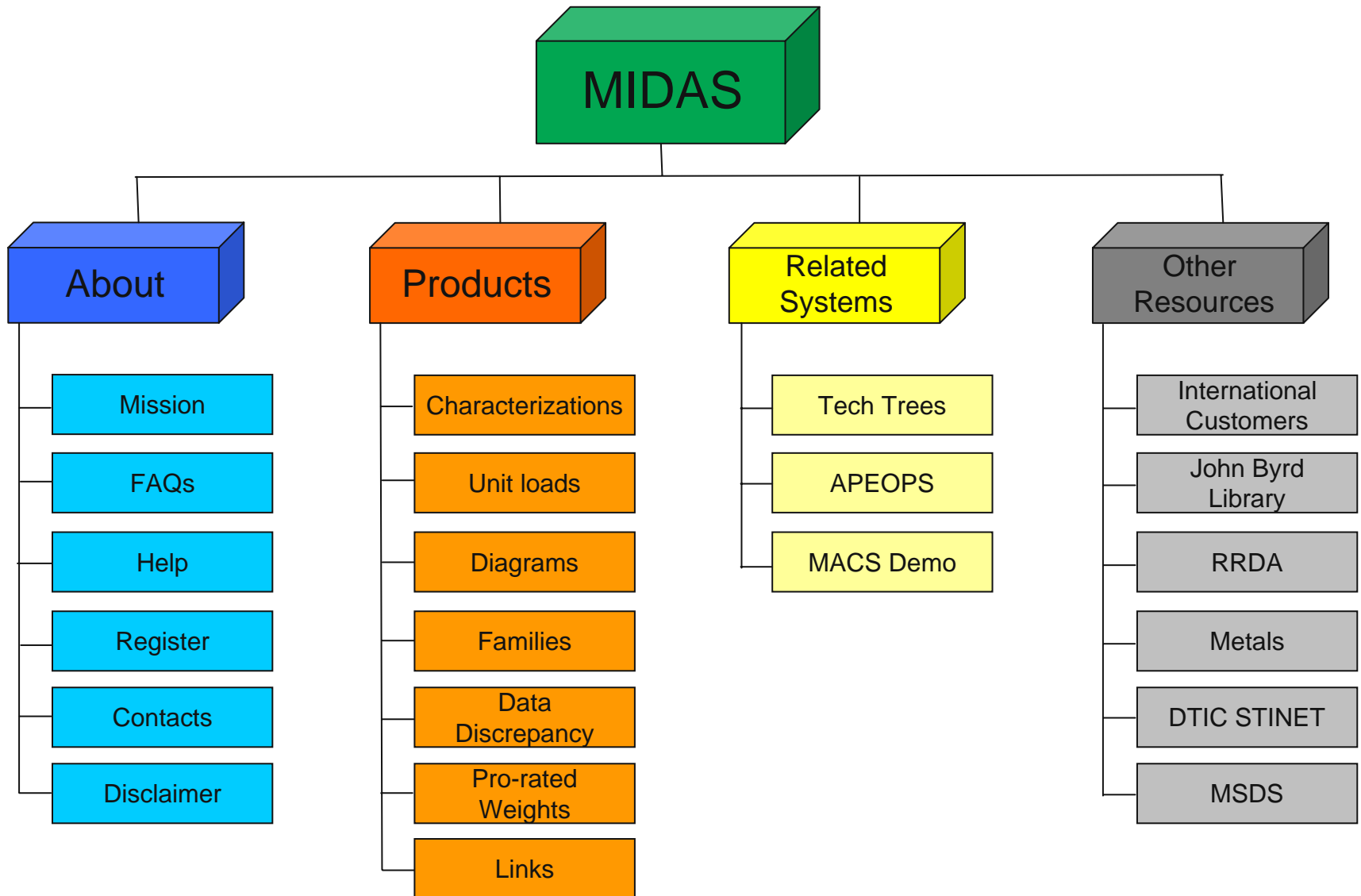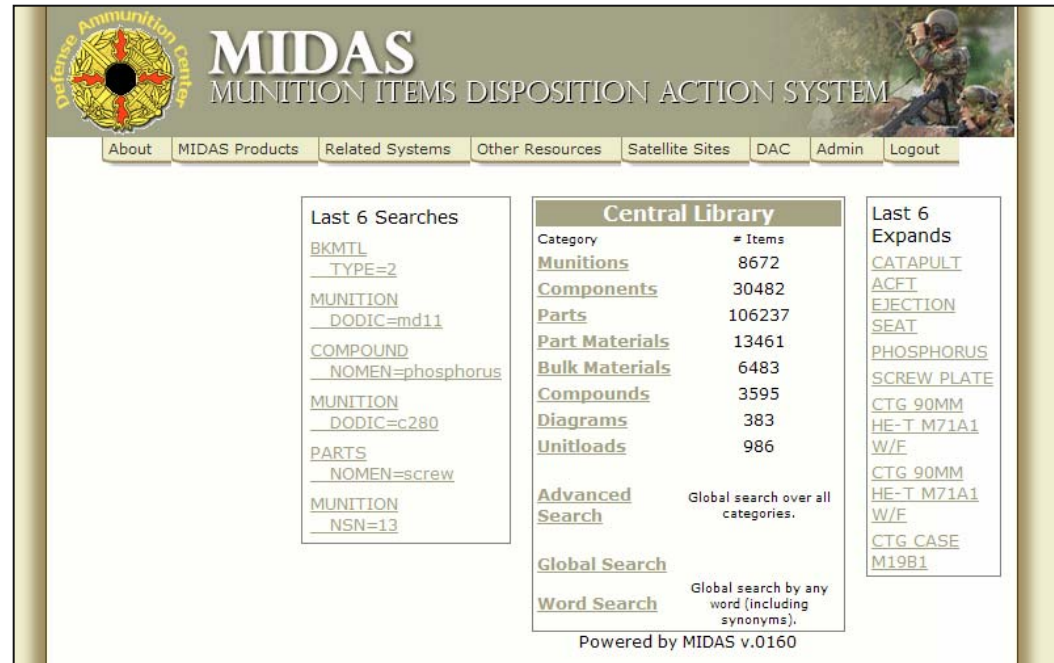
Current Data Sharing via the MIDAS Web Site

As MIDAS Thrives, the Web Site Responds

- **Web site is the focal point for MIDAS data**

- **Version 160 of the MIDAS Library was published in April 2007**

- **MIDAS contains detailed information for:**
  - 8,672 munitions
  - 30,482 components
  - 106,237 parts
  - 13,461 part materials
  - 6,483 bulk materials
  - 3,595 compounds

- **Continually update the Site with new features**

The MIDAS Web Site Has Been Busy

- **Currently 750 registered users**

- **Recent monthly usage:**
  - 1,100 sessions
  - 235 unique users
  - 2,967 searches
  - 2,518 detailed structures viewed

- **In the last year, over 50,000 searches have been performed!**

How Has MIDAS Grown?

- **Characterizations**
  - New munitions
  - Additional components, parts, part materials, bulk materials, and compounds
  - Additional data for existing items

- **Enhancements**
  - Final location of munition parts when fired (Firing Point/Impact Point)
  - CAS numbers
  - CAGE codes
  - Tracking numbers of unavailable drawings
  - Tracking of multiple revisions for a munition
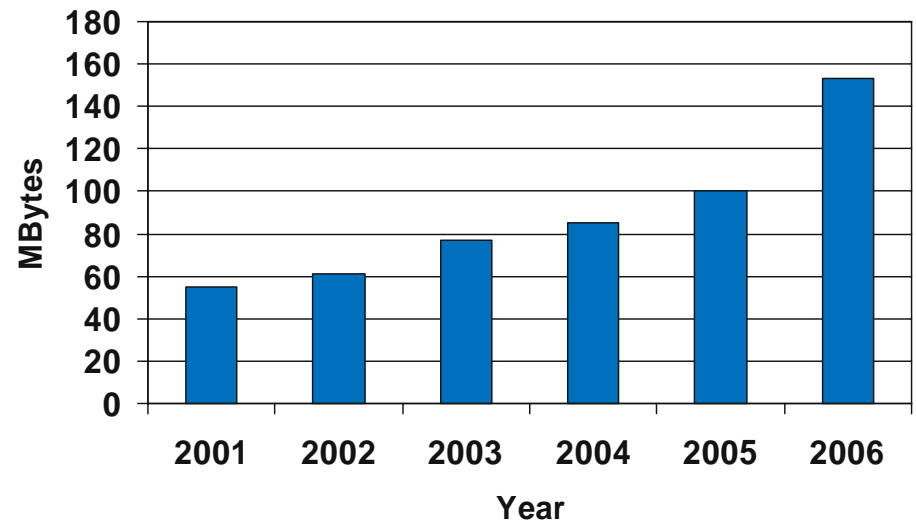
Size of MIDAS Central Library

As MIDAS Has Grown, the Web Site Has Addressed New Challenges

- **Displaying large amounts of data**
  - Detailed structure of a munition
  - Usage of common materials/compounds

Word	# Occurrences
Steel	42,382
Alloy	21,152
Stainless	20,479

- **Expanding searching capabilities and performance**
  - Key fields
  - Global text search
  - Word dictionary (13,000 words, abbreviations, codes, sizes)
  - Synonyms (element symbols, abbreviations, different spellings)

- **Increased Access and Data Security**
  - MIDAS data designated *"For Official Use Only"*
  - Security certificates
  - Microsoft Internet Explorer 7

Large Amounts of Data: Number of Line Items in the 8,672 Munition Characterizations
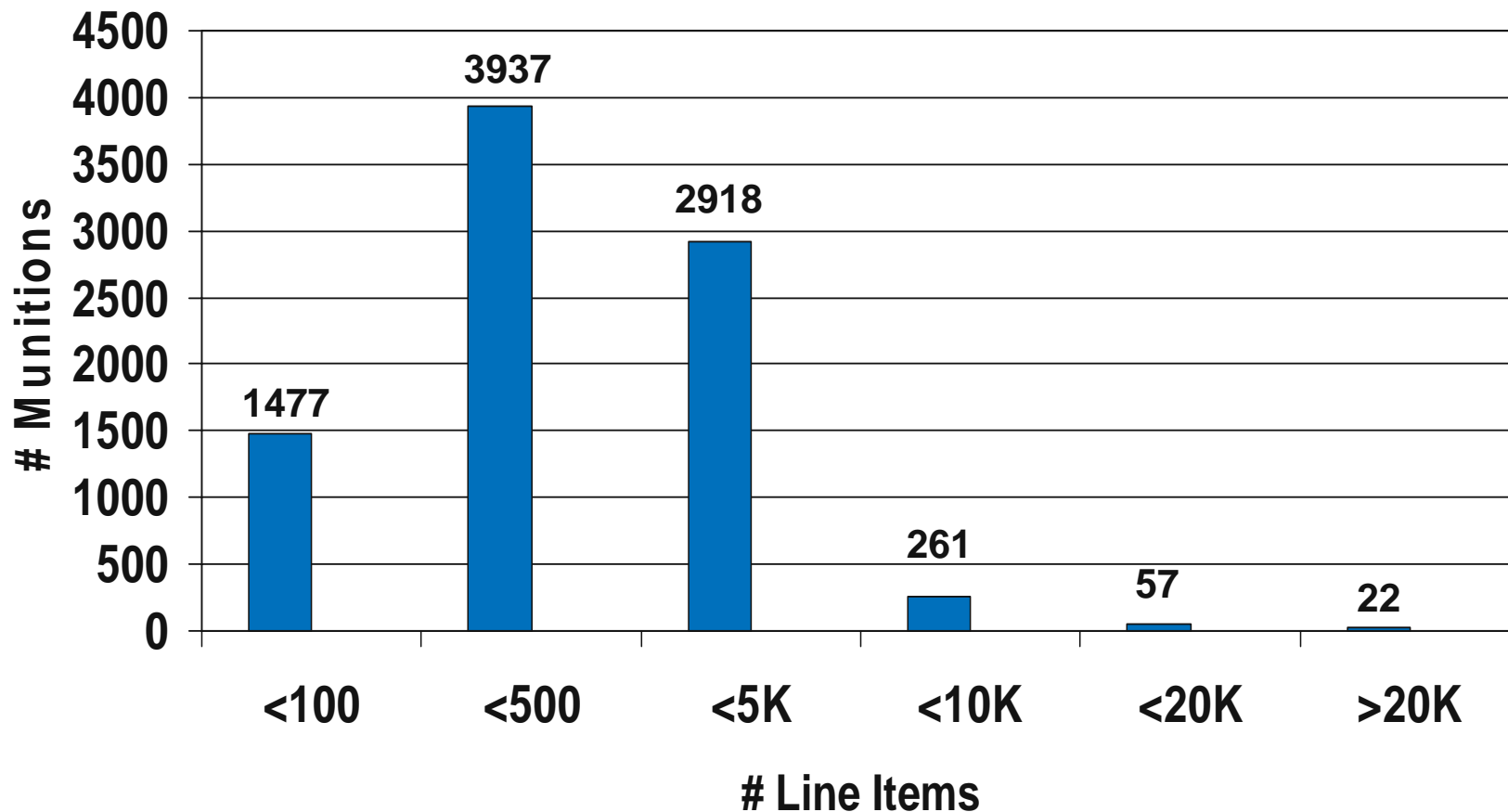
The most detailed munition characterization has 247,861 line items!

Similar to Web Search Engines - MIDAS Tools Create Support Databases to Boost Performance

- **Munition detailed structures (the "*Expands*")**

- **Material/compound usages**

- **Reports for each munition**

- **Word dictionary and synonyms**

- **Calculated weights**

Central Library

Expands

Usage

Reports

Dictionaries

Calculated Weights

These tools create databases 80 times the size of the Central Library (12 GBytes).
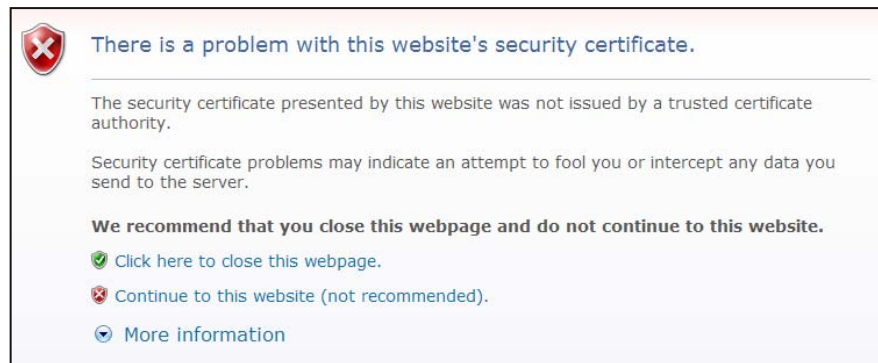
Don't Let Security Warnings Scare You Away from MIDAS!

- **MIDAS Web site security certificate is issued and signed by DOD**

- **DOD is not a default trusted signature for any web browsers**

- **To avoid certificate warnings, add DOD as a trusted signature**

- **How? Download and Run DOD certificate install program**

Microsoft Internet Explorer 6
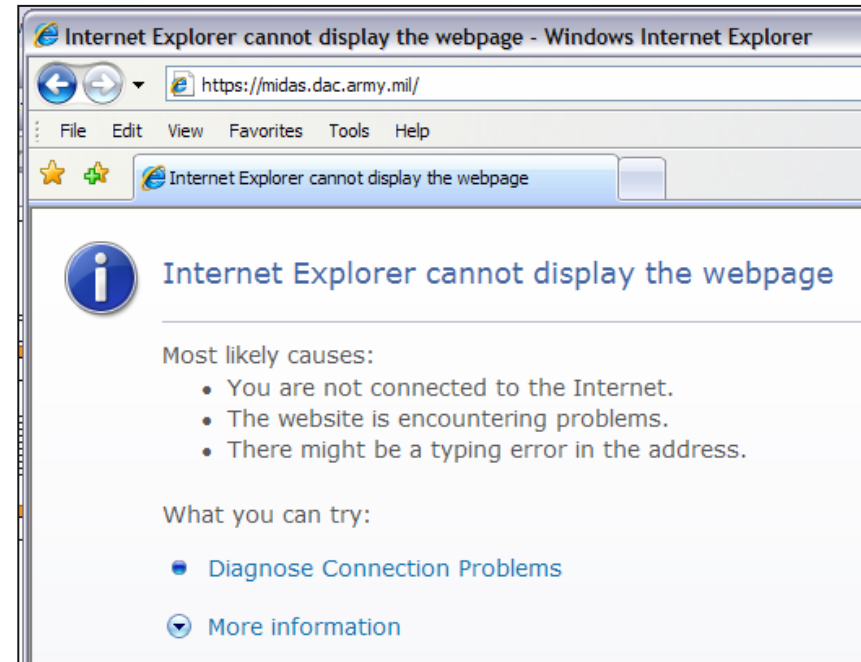

Microsoft Internet Explorer 7

Microsoft's Internet Explorer 7 (IE7) Security Messages are Misleading

- **IE7 has changed default security settings**

- **MIDAS Web site uses an SSL 2.0 security certificate**

- **IE7 default settings for secure browsing are not set to use SSL 2.0**

- **This will be a widespread problem with accessing Web sites that require access security**

Correct the Internet Explorer 7 Security Settings

- **Edit Internet options on your PC**

- **Enable the SSL 2.0 option**

- **Close all Internet Explorer windows**

- **Restart Internet Explorer**

- **Retry the MIDAS Web site**
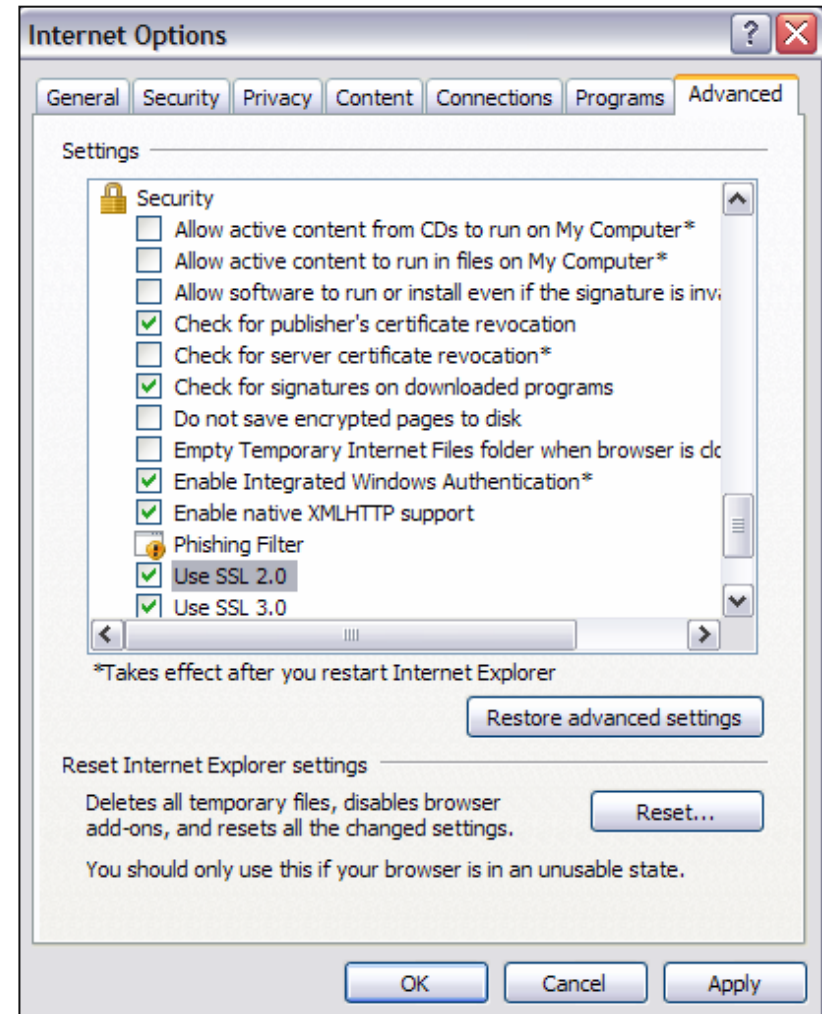
If You Have a Problem using the Web Site

- **Note the date and time**

- **Note the munition item or search criteria you were specifying**

- **Note any error messages**

- **Call Tena Ellis at 918-420-8014 or email at Tena.Ellis@US.ARMY.MIL as soon as possible**

We wish to thank Paul West (Tooele Army Depot) for timely feedback that enabled us to track down and solve a recurring issue on the MIDAS Web site.

If You are Not Already a MIDAS User, Get Registered Now

- **Start at http://midas.dac.army.mil**
  - On the *About* Menu, select *Register*
  - Agree to terms of use
  - Submit registration information
  - Download, print, and sign MIDAS registration form
  - Receive email confirmation of account activation
  - Fax signed hard copy to DAC (918-420-8717) within a week to avoid account deactivation.

Clicking the 'I Agree' checkbox verifies the potential user has read and fully understands this agreement.

☐ I agree to the terms and conditions listed above.

[Continue]

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