



Cyber Resilient Weapon Systems Body of Knowledge (CRWS-BoK) Portal

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Office of the Under Secretary of Defense for Research and Engineering

National Defense Industrial Association Systems & Mission Engineering Conference December 6-8, 2021



Agenda

- Overview of Vision and Capability
- Concept of Operations
- Functionality Overview
- Outreach



Overview of the Vision



The Cyber Resilient Weapon Systems Body of Knowledge (CRWS-BoK) will provide a living, curated, authoritative guide to the knowledge most relevant and important to the advancement of engineering secure and cyber resilient weapon systems for engineers, program managers, science and technology (S&T) managers, and researchers from Department of Defense, Federal Government, industry, and academia.



Launched May 6, 2021, with Version <u>1.2</u> released <u>Oct. 20</u>, 2021



Overview of the Capability



CRWS-BoK includes:

- A comprehensive, continuously updating repository of curated, engineering information to produce cyber-secure, cyber-survivable, and cyber-resilient weapon systems.
- A powerful viewing environment that enables users to efficiently and easily access, search, annotate, save, and share the engineering information they need for both individual and collaborative purposes (the body of knowledge).
- Links to CRWS-relevant workforce training, competencies, and credentialing information within the repository.





Owner(s):

- Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E))
- Strategic Technology Protection and Exploitation (STP&E)
- Resilient Systems
- SAIC

Intended Users:

• Those in the resilient systems and adjacent communities. This includes engineers, program managers, S&T managers, academics, and policy writers.





Adding/Removing Content

Who (Content Management Stakeholders):

- Composed of representative members from government, industry and academia, with Curation Team facilitation:
 - OUSD(R&E) STP&E (Burhan Adam, government lead)
 - DoD Cybersecurity Industry Technical Advisory Group (CITAG)
 - National Defense Industrial Association (NDIA) Systems Security Engineering (SSE) Committee
 - Systems Engineering Research Center (SERC)
- A list of candidate resources is consolidated and packaged by the Curation Team for the Review Board's consideration.
- The Review Board adjudicates whether a resource meets all the Acceptance Criteria for inclusion in the repository.





Criteria:

- All material included in the repository <u>is</u> unclassified and approved for Unrestricted Public Release.
- Restricted Public Release material (e.g., resources with associated paywalls) will have the URL/link shown but will not be contained in the CRWS-BoK repository.
- Foreign, sovereign-owned material will <u>**not**</u> be accepted for inclusion.
- A document in draft can be nominated but cannot be accepted for inclusion until it has reached official publication.
- A list of topics* of interest will be consulted for resource relevancy.

*A full list of the Topics of Interest, and a more detailed look at the criteria, is included in the backup slides.





Maintaining Quality:

- Users are able to nominate new resources for consideration by the Review Board.
- There is ongoing validation of resources included in the repository to ensure they are the most current version.
- When a resource is retired or rescinded, related documentation will automatically be put up for review.
- Algorithms and metrics are leveraged to determine when resources need to be reviewed.
 - This is based on how frequently a resource is accessed or if a resource is consistently rated as poor by users.
 - Poor performance in the above qualifications will place the resource on the "candidate for removal" list for the Curation Team to review.





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Current Features

- Searching
 - Guided search
 - Keyword search
 - Keyword filter
 - Save a search
 - Defined filters
- General
 - Notifications
 - List view
 - Share document
 - Information/help boxes
 - Accessibility features
 - Site map
 - "Dark mode"

- Resources
 - PDF/resource viewer
 - Search within a document
 - PDF annotations
 - Document download
 - Document print
 - Document favorite
 - Details view
 - Relationship view
 - References tab

Planned Features

- AI-assisted relationship mapping
- Enhancements to <u>Relationships</u> and <u>References views</u>
- User interface improvements

Release Notes

Version 1.2

Features

- · Reference links added to all resources where applicable
- Usernames are no longer case sensitive.
- · Landing page updated.
- Search page updated to have more concise verbiage and pagination at the bottom of search results as well as top.
- · Review board added for applicable users
- Two Step process for registration implemented

Bug Fixes

Search not returning to the first page after submitting a new search.

Version 1.1.1

Features

Added functionality for Review Board members to be able to view unapproved resources (nominated resources).





Current Features (Searching)

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	HELP 🕑	CRWS-BoK News
	Protecting System Elements Through Cyber Resilient Engineering	CRWS-BoK has recently been updated to version 1.2.
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CHOOSE ONE Technology	Снообе оме Architecture Design	CRWS-BoK is always looking to grow! If you're aware of a resource the community may be interested in, be sure to submit a resource nomination. Register an account, and fill out the nomination form today!
Data and information	Design Development	
Mission and System Function	Requirements Management Risk Management -	
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Current Features (Guided Tutorial)

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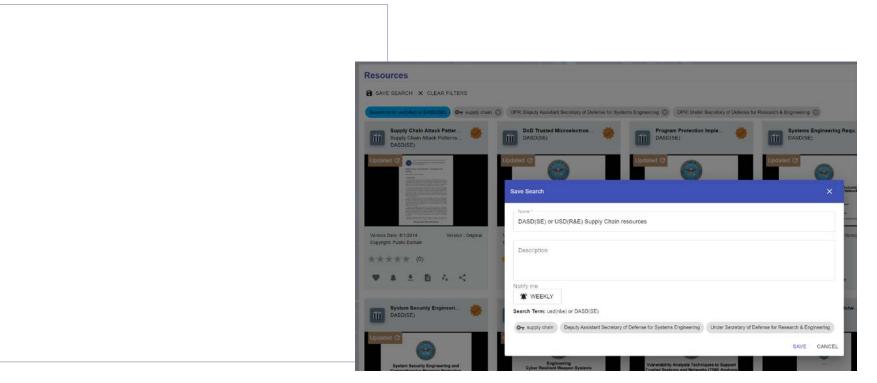
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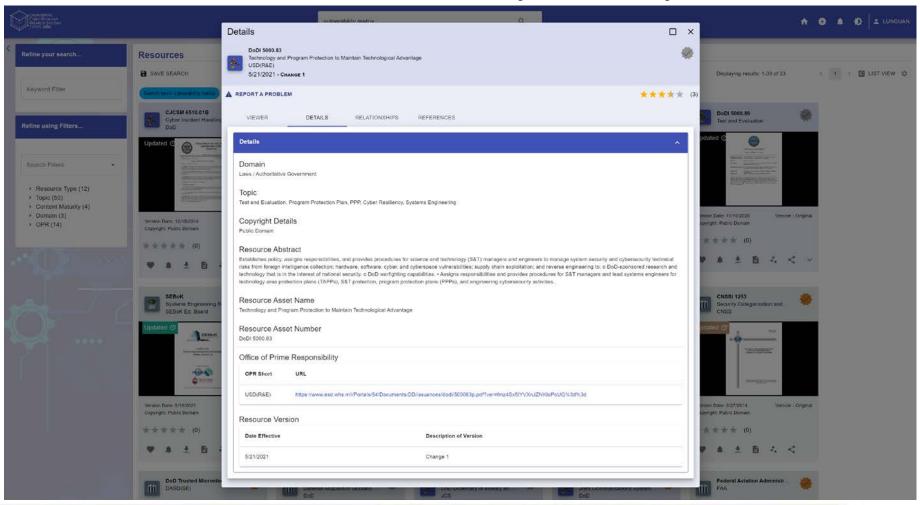
Current Features (*Resource***)**

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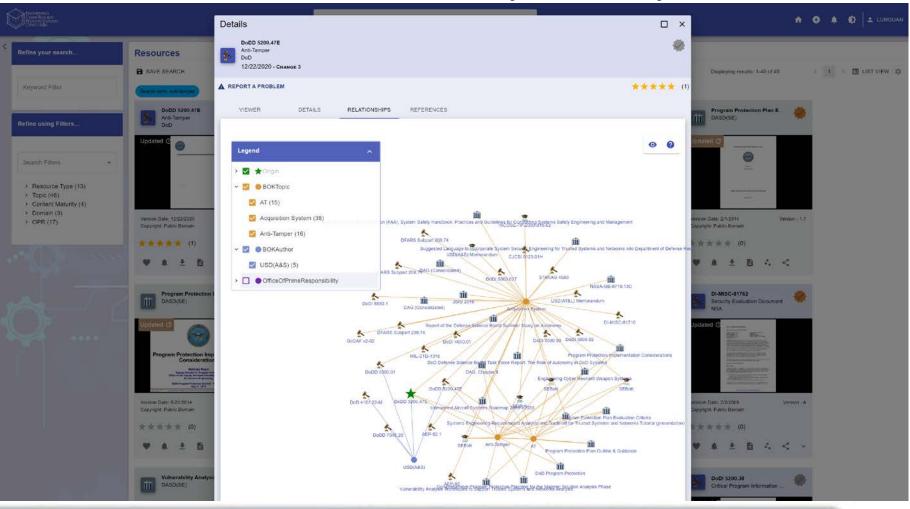
Current Features (Resource)







Current Features (Resource)







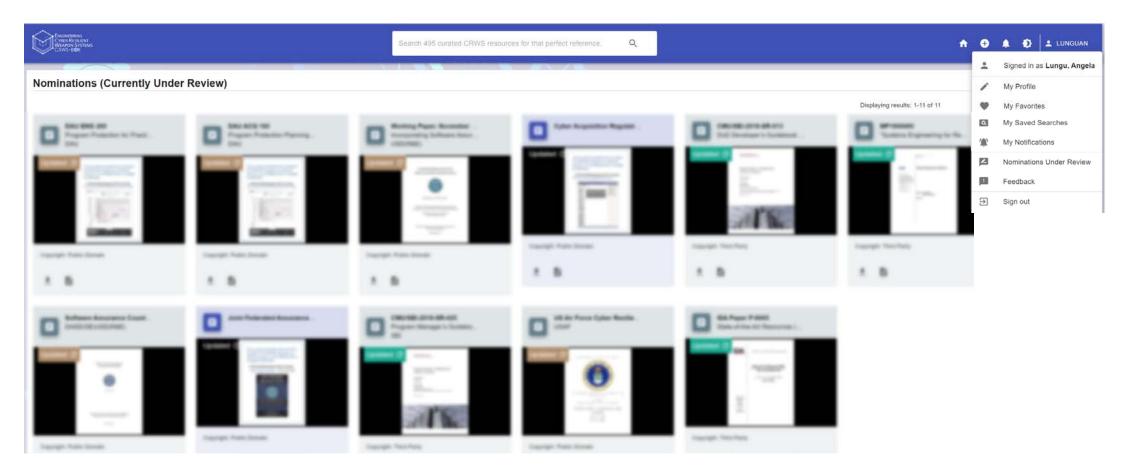
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Current Features (Review Board)







Current Features (Usability Testing)

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	Help us improve the your experience by filling the survey here.	
	Can't find what you're looking for? Check the Glossary for definitions and terminology	





Current Features (General)

Sitemap × Main Pages . . Home User Settings and Resources . Profile . . Notifications . . Favorites . . Saved Searches . . Password Reset . Contact Us . . Nominate a Resource . . Site Information .

- About
- FAQs
- Copyright
- Release Notes

CLOSE

Accessibility Information

The Cyber Resilient Weapon Systems Body of Knowledge (CRWS-BoK) is committed to making its portal page and electronic resources accessible to individuals of all abilities. Our success is measured by meeting or exceeding the requirements of Section 508 of the Rehabilitation Act (29 U.S.C. § 794(d)), as amended by the Workforce Investment Act of 1998 (Public Law 105-108). Section 508 requires that all individuals with disabilities (whether federal employees or members of the general public) have access to and use of information and data, comparable to that provided to individuals without disabilities, unless an undue burden would be imposed on us. More information about Section 508 may be found

https://www.section508.gov/manage/laws-and-policies/

If you use assistive technology (such as a screen reader, eye tracking device, voice recognition software, etc.) and have difficulty accessing information on this website, please use the DOD CIO Accessibility/Section 508 site to report the difficulty. You will be asked to provide the URL (web address) of the material you tried to access and a description of the problem you experienced.

The majority of our resource documents are viewed as Portable Document Format (PDF) files. To view documents stored as PDF files, your local computer must have the Adobe Acrobat Reader DC application, or a Web browser plug-in that supports the PDF file format.

Download the Adobe Acrobat Reader DC

As the technology of the Internet evolves, we share the ongoing task of learning how to improve the accessibility of our resource documents and our services with you. We welcome your comments for improving the accessibility of our web assets and services. Please share your comments, questions, or concerns related to accessibility or our Section 508 Program with support@crws-bok.org.

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Outreach: CTO.mil



Updates from Across the R&E Enterprise

DoD Announces New Cyber Resilient Weapon Systems Body of Knowledge Portal May 6, 2021

out at crws-bok.org #cyber #cybersecurity

The Strategic Technology Protection and Exploitation (STP&E) Office in the Office of the Under Secretary of Defense for Research and Engineering announces the launch of the Cyber Resilient Weapon Systems Body of Knowledge (CRWS-BoK) Portal.

The Official account for the Office of the Undersecretary of Defense for Research and Engineering (USD(R&E), the Department of Defense's Chief Technology Officer (CTO). Tweets + enocito DoD CTO . #DoD launches new Cyber Resilient Weapon Systems Body of Knowledge Portal to provide a living, comprehensive repository of curated guidance & knowledge for #science & #technology engineers, managers, & researchers. Check it

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DoD Announces New Cyber Resilient Weapon Systems Body of Knowledge Portal

The Strategic Technology Protection and Exploitation (STP&E) Office in the Office of the Under Secretary of Defense for Research and Engineering announces the launch of the Cyber Resilient Weapon Systems Body of Knowledge (CRWS-BoK) Portal.

The CRWS-BoK Portal provides a comprehensive repository of authoritative guidance and knowledge for science and technology (5&T) professionals who specialize in cyber resilient weapon systems. Engineers, S&T program managers, and researchers from Department of Defense (DoD), government, industry, and academia will be able access, search, annotate, save, and share the engineering information they need to develop, maintain, and monitor secure, cyber resilient weapon systems programs.

STP&E's Resilient Systems directorate, under the leadership of Resilient Systems Director Melinda Reed, designed and developed the CRWS-Box Portal, Resilient Systems will continually update the Portal with curated guidance so that it remains a living, informative resource,

Resilient Systems partners with engineers, S&T managers, and researchers from across DoD. Federal Government, industry, and academia to foster assured resilient missions, systems, and components. Resilient Systems' initiatives leverage best practices and foster innovation that enables the Nation's S&T workforce to engineer cyber resilient weapon systems that can successfully operate in the face of cyber threats.

For additional information and to register for an account, access the CRWS-BoK Portal at https://crws-bok.org. The site is optimized for Chrome, Firefox, Edge, and Safari browsers.

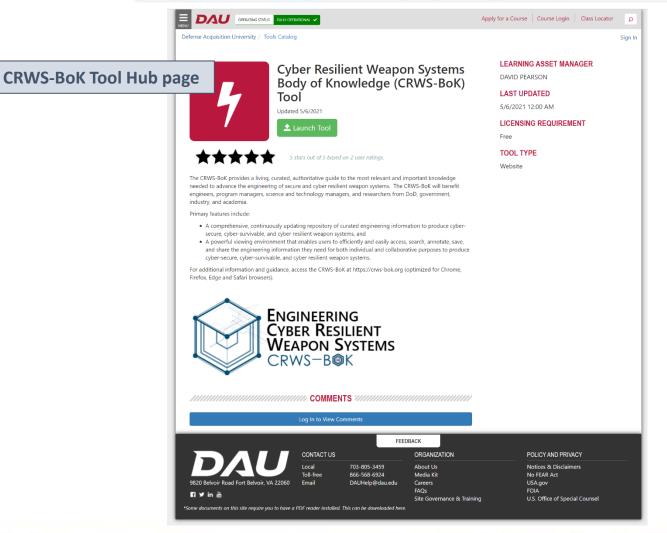




Outreach: Defense Acquisition University



https://www.dau.edu/tools/t/Cyber-Resilient-Weapon-Systems-Body-of-Knowledge-(CRWS-BoK)-Tool





Outreach: SERC



https://sercuarc.org/related



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The Cyber Resilient Weapon Systems Body of Knowledge (CRWS-BoK) provides a living, curated, authoritative guide to the most relevant and important knowledge needed to advance the engineering of secure and cyber resilient weapon systems. The CRWS-BoK will benefit engineers, program managers, science and technology managers, and researchers from DoD, government industry, and academia.

Primary features include: a comprehensive, continuously updating repository of curated engineering information to produce cyber-secure, cyber-survivable, and cyber resilient weapon systems and; a powerful viewing environment that enables users to efficiently and easily access, search, annotate, save, and share the engineering information they need for both individual and collaborative purposes to produce cyberOsecure, cyber survivable, and cyber resilient weapon systems.

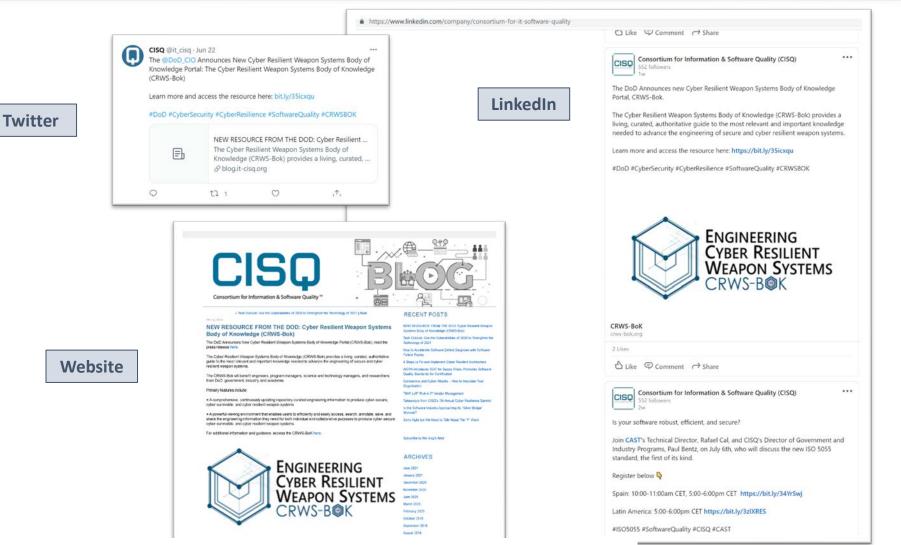


The International Council on Systems Engineering (INCOSE) is a not-for-profit membership organization founded to develop and disseminate the interdisciplinary principles and practices that enable the realization of successful systems. INCOSE is designed to connect SE professionals with educational, networking, and career-advancement opportunities in the



Outreach: CISQ





https://blog.it-cisq.org/2021/06/new-resource-from-the-dod-cyber-resilient-weapon-systems-body-of-knowledge-crws-bok.html



Contact for Further Information





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- madison.a.rudy.ctr@mail.mil









Backup





Acceptance Criteria



- Minimum Acceptance Standards:

- \checkmark The artifact must be available at no cost online.
- There is no cost for users to access the CRWS-BoK; it is for educational purposes only.
- The CRWS-BoK cannot circumvent or infringe upon those who own the commercial rights to the artifact. Subsequently, contingent upon copyright permission and acceptance into the repository, no further distribution or production is authorized without the user individually requesting copyright permission from the artifact's author or publisher.

✓ Only materials that are both unclassified and approved for public release (unlimited distribution) are acceptable.

- The CRWS-BoK is unclassified and with unlimited access.
- Materials that are unclassified but with limited distribution may be nominated, but will not be contained in the repository. A reference only (title/limited attributes) will be included, with a source link for the user to request access to the material/artifact.
- No classified material at any time will be included in or referenced by the CRWS-BoK.
- No foreign, sovereign-owned material that is not available for public release may be nominated.
- ✓ Both published and unpublished materials are acceptable; while those materials that are in draft, review, or other unapproved form as part of an approval process are not acceptable.
- Material that is premature, in draft, and would not be appropriate to include until approved for release [e.g., standards, handbooks, guidance that come from a formal body (ISO, INCOSE, IEEE), government (DoD, NIST), or industry (RCTA)]. Also unacceptable would be material for textbooks or similar class materials or handouts.
- Material intended for formal acceptance by such a governing body should not be accepted in the CRWS-BoK while it is in draft, review, or other unapproved form.

- Quality Criteria:

✓ <u>The artifact must support the overall CRWS-BoK goal of advancing the</u> general education and practice of engineering secure, survivable, & resilient weapon systems.

- Topics of Interest:

- ✓<u>The artifact should exhibit specific "engineering consumability"</u> <u>characteristics and pertain to at least one of the following CRWS topic areas:</u>
 - 1. Requirements analysis
 - 2. System design
 - 3. Design patterns
 - 4. Systems thinking
 - 5. Control systems
 - 6. System analysis of adverse effects & associated losses
 - 7. Threat identification, assessment, & tracking
 - 8. Vulnerability identification, assessment, & tracking
 - 9. Hardware development & assurance
 - 10.Software development & assurance
 - 11. Risk, issue, & opportunity identification & assessment
 - 12.System & architecture modeling
 - 13. Engineering methods, processes, & tools
 - 14. Engineering workforce education, training, & skillsets
 - 15. Engineering standards, specifications, handbooks, & guidance



Nomination/Review Process



User Submission	Candidate Resource	Resource Nomination	Review Board	Candidate Resource
	Disposition	Review	Adjudication	Final Disposition
 Registered User submits unclassified, publicly available resource using Nomination Form on CRW-BoK Actual resource is attached and URL is included (if published online) 	 Candidate Resource (actual resource information) is flowed directly to Candidate Resource Holding Repository until final disposition (approval or rejection) Resource Nomination Alert is sent to Curation Team 	 CRWS-Bok Curation Team collects and assesses Resource Nomination Alerts on weekly basis Curation Team conducts initial review of candidate resources; eliminates nominations not meeting criteria Curation Team validates and downloads most current versions of remaining nominations Curation Team prepares CRWS-BoK Resource Nomination Package for Review Board (scheduled monthly) Any previous rebuttals (disapproved nominations) included in package with previous disapproval discussion and any new supporting information 	 Curation Team schedules monthly meeting of Review Board and Curation Team representatives Review Board reviews and adjudicates CRWS- BoK Resource Nomination Package, per CRWS- BoK Approval Criteria Curation Team representatives confirm and document results of Review Board adjudication 	 Those Candidate Resources not approved are annotated as "disapproved" (with date/reason) and moved to Disapproved Resource Repository. Those Candidate Resources that were approved are re- validated for currency and other metadata, and then moved from Candidate Resource Holding Repository to Active Resource Repository Curation Team notifies Registered Users who nominated resources of final disposition Any rebuttal for disapproved nominations are collected for next Review Board, as appropriate

















