



## Open Source and the DoD

Background

OSSI

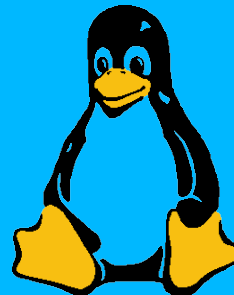
Dept of Navy  
-NAVO  
-CRADA  
-DONCIO

DMLSS  
-OpenSSL  
-FIPS 140-2

NCOSPR

Questions

# Open Source and the DoD





## Open Source and the DoD

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# Open Source and the Department of Defense

## Open Source within DoD

- **Use of Free and Open-Source Software (FOSS) in the U.S. Department of Defense**
  - ([http://terrybollinger.com/dodfoss/dodfoss\\_html/](http://terrybollinger.com/dodfoss/dodfoss_html/))
  - Mitre Corporation (Terry Bollinger) – January 2003
  - 115 FOSS Applications – 251 Examples of their Use
  - **Conclusions:**
    - Vital to DoD Security
    - Web Infrastructure would be hit hard
    - Research Relies on FOSS for Synergy
    - Cost Seldom Only Reason for Choosing FOSS
    - Software Development Would Be Hit Hard



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## Open Source within DoD

- **DoD CIO – Open Source in the DoD**
  - John Stenbit – May 28, 2003
    - “...memorandum reiterates current policy and provides additional guidance on the acquisition, use and development of OSS within DoD.”
    - “...OSS complies with the same DoD policies that govern COTS and GOTS software.”
      - (i) Comply with the evaluation and validation requirements of National Security Telecommunications and Information Systems Security Policy Number 11 – **NSTISSP No. 11**
      - (ii) be configured in accordance with DoD-approved security configuration guidelines...”



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# Open Source Software Institute

**OPEN SOURCE  
SOFTWARE INSTITUTE**



**OSSI is a non-profit organization whose mission is to promote the development and implementation of open source solutions within government agencies.**

- Membership-based organization
- Established in 2001
- Primary target audience has been Department of Defense
- State and municipal projects with national scope, local impact
- Department of Homeland Security



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# OSSI – Department of the Navy

## • Department of the Navy



- Cooperative Research and Development Agreement (CRADA)
  - CNMOC – NAVOCEANO - FNMOC
- Dept of Navy, Office of the CIO (DONCIO)
  - DON Open Source Policy Working Group
- Program Executive Office-Info Tech
  - PEO-IT



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# OSSI – Navy CRADAs



**Naval Oceanographic Office**

**John C. Stennis Space Center**

**Cooperative Research and Development Agreement**

**NCRADA-01-008**

- **Six of nine divisions used OSS**
- **Mission Critical Applications**
- **900% savings on deployed shipboard systems**





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# OSSI – Navy CRADAs

## Commander, Naval Meteorology and Oceanography Command



## NAVOCEANO - FNMOC



### NCRADA-05-11

- Use of OSS within Enterprise Architecture
- Use of OSS within Web Services/FORCEnet
- Economic Impact Analysis





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# OSSI – DONCIO

## Department of the Navy Chief Information Officer



- Open Source Working Group
- Development official policy for Navy and Marine Corps





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# OSSI – FIPS 140/OpenSSL

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Questions

- FIPS 140-2 Validation for OpenSSL
  - secure the National Institute of Standards and Technology (NIST) FIPS 140-2 validation for OpenSSL
    - Defense Medical Logistics Standard Support
    - NSTISSP No. 11



Why buy an  
**SSL**  
toolkit as a  
black-box when  
you can get an  
**open**  
one for  
**free?**





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# OSSI – Jail Management System

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Questions

- MS Automated System Project
  - Jail Management System
    - Development - Maintenance/Support
  - JMS is “open sourced”
    - Open Software License (OSL)
    - wise use of public funds
  - hosted in public repository
    - [GovernmentForge.org](http://GovernmentForge.org)



**OPEN SOURCE**  
SOFTWARE INSTITUTE



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# NCOSPR

## National Center for Open Source Policy & Research



### National Center for Open Source Policy and Research

*Building an Open Source Enterprise Community*

- Established to promote the use of open source software solutions within government IT enterprise environments for the benefit of government agencies, and public sector entities.



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# NCOSPR - Organization

- <http://www.ncospr.org>
- Hosted by Univ. of Southern Miss
- Administered by OSSI
- Based at Stennis Space Center
  - Academic offices at Southern Miss
- DoD, DON, DHS, DOC, DOJ





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# NCOSPR

- **Open Source Resource Center**
  - **GovernmentForge.org - public sector OSS repository**
    - **civilian – sensitive/classified sections**
- **Open Source Center of Excellence**
  - **University of Southern Mississippi**
- **National Open Source Public Policy Research Institute**
  - **DoD and civilian public policy “think tank”**



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# Contact Information

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