



OPSEC and Social Networking



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References



- DTM 2009-026 Responsible & Effective use of Internet-based Capabilities
- SECNAVINST 5720.47B DON WWW Web Policy
- DON CIO_CHINFO Joint Memo 10_Oct 07_DOC Web Presence Policy
- NTTP 3-54 M Operations Security
- DOD Directive 5205.2 OPSEC Program
- OPNAVINST 3432.1 Operations Security
- DON Navy Public Affairs Policy & Regulations SECNAV 5720.44B
- DON Policy for Content of Publicly Accessible World Wide Web Sites SECNAV 5720.47B
- <http://www.chinfo.navy.mil/socialmedia.html>
- COMNAVREGMIDLANTINST 5720.1 Web 2.0 Technologies
- <http://www.ioss.gov/> Social Networking Sites Safety Checklist
- ALNAV 056-10 IbC- Official Internet Posts
- ALNAV 057-10 IbC- Unofficial Internet Posts

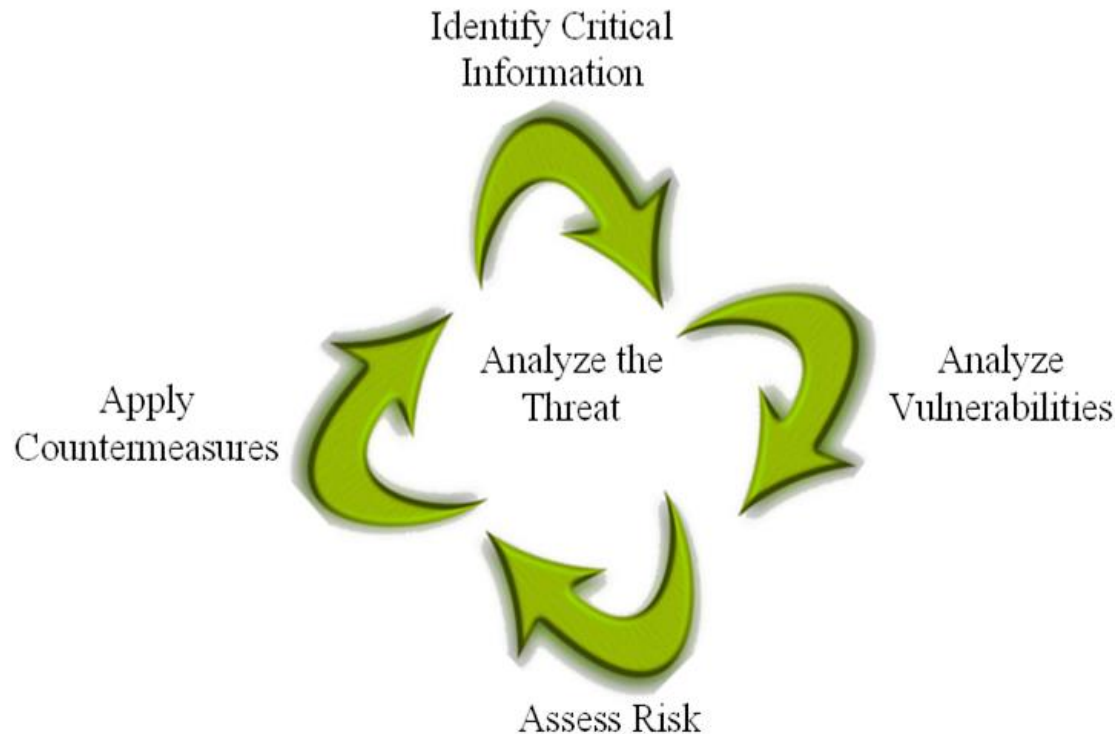


Operations Security

OPSEC



OPSEC is a process that identifies critical information, outlines potential threats and risks and develops counter measures to safeguard critical information



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Critical Information

- Information **we must protect** to ensure success.
- Information the **adversary needs** to prevent our success.
 - Names and photos of you, your family and co-workers
 - Usernames, passwords, network details
 - Job title, location, salary, clearances
 - Physical security and logistics
 - Position, mission capabilities and limitations
 - Operations & missions
 - Schedules and travel itineraries
 - Social security number, credit cards, banking information
 - Hobbies, likes, dislikes, etc.





Data Aggregation



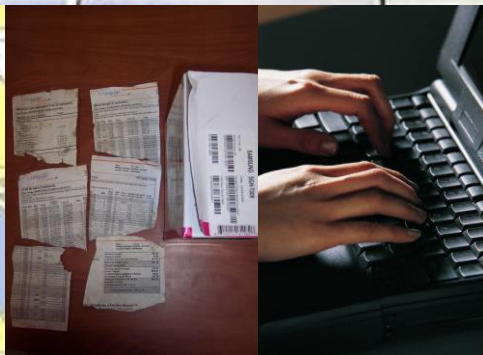
- Information collection from multiple sources
- Al Qaeda handbook: open and legal public sources accounts for 80% of all information collected
- Legal and illegal collection methods



Potential Vulnerabilities

Methods used to obtain Critical Information:

- Unprotected communications
- Sharing too much with strangers
- HUMINT Observations
- Technology
- Trash
- Media
- Email
- Web pages
- Social Networking Sites



Illegal methods are OK with adversaries!!!



Social Networking

Social Networking Sites (SNS) allow people to network, interact and collaborate to share information, data and ideas without geographic boundaries.

GoogleTM
Social

friendster

foursqua

Gowalla

TAC

hi

e

Blogger

flickr

orkut

USTREAM.TV

xanga

+

digg

myspace

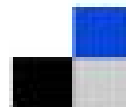
PAR

Tube

Just Yourself

netvibes
Linked in

YAHOO! 360°
BETA



del.icio.us

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Revised Statement of Rights & Responsibilities



- You own all of the content & information you post.
- “You specifically give us the following permission,

Consent to Collection and Processing in the United States. By using Facebook, you consent to having your personal data transferred to and processed in the United States.

– Worldwide license

- “We may collect information about you from other users.”
- “Sometimes we share aggregated information with third parties.”



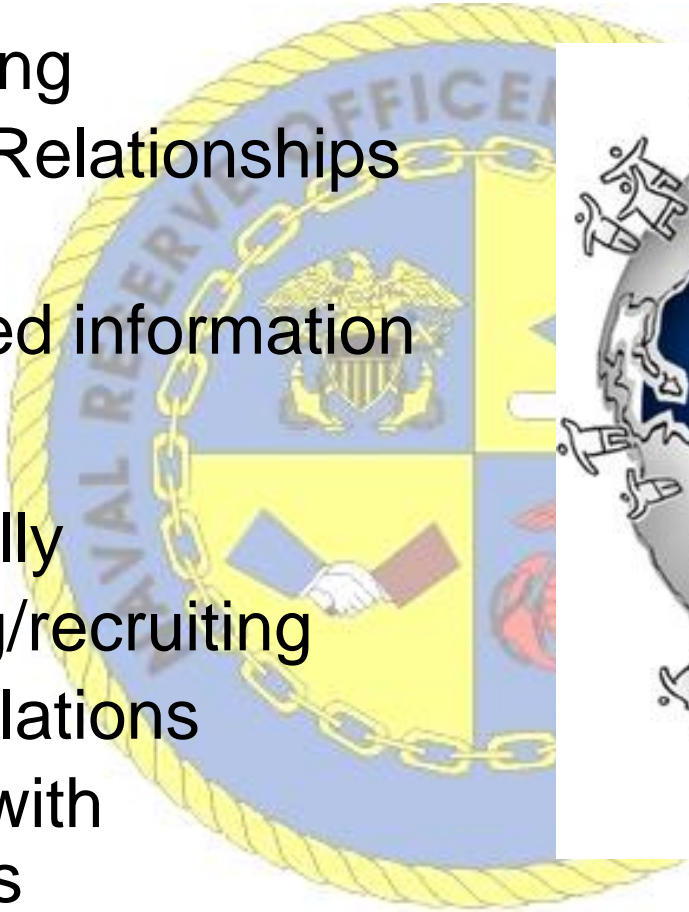
Why use a SNS?

Personally

- Entertaining
- Maintain Relationships
- Network
- Centralized information

Professionally

- Marketing/recruiting
- Public Relations
- Connect with customers
- Solicit ideas and feedback





The Danger

Bad guys use it, too:

- Stalkers
- Thieves
- Terrorist
- Hackers
- Phishers/Scammers
- Enemy organizations
- Pedophiles
- And the list goes on...



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The Danger

Al-Qaeda communiqué December 2009:

"The affair with the U.S. Navy began several years ago, when the lions of Al-Qaeda struck the destroyer U.S.S. Cole in Yemen; now, with Allah's help, all the American vessels in the seas and

Information on every U.S. Naval unit should be quietly gathered...what state they are from, their family situation, and where their family members live...

...search for the easiest ways of striking these ships...

websites in order to gather as much information as possible, and translating it into Arabic; search

.... Do not underestimate the importance of any piece of information, as simple as it may seem....



Social Networking Websites and Your Security Clearance



The following is a security awareness statement signed by the Chief of

Question 14 of the National Agency Questionnaire (SF-86) asks for names of your relatives and associates. The term associate is defined as any foreign national that you or your spouse are bound by affection, obligation, or close and continuing contact.

and associates. The term associate is defined as any foreign national that you or your spouse are bound by affection, obligation, or close and continuing contact.



DO'S & DON'TS of SOCIAL NETWORKING



“Do’s”

Do: Remember Computer Security

Do not be an easy target for computer crimes

- Hacking
 - Theft
 - Planted code
- vs.
- Antivirus software
 - Firewalls
 - Strong Passwords
 - Permission Settings





“Do’s”

Do: Verify All Friend Requests

Social engineering and “conning” starts with a friend request



Adversaries can get the data from:

- Free people search engines
- Other SNS's
- Your posts/profile
- Your friends posts/profile

Verify Requests Before
Approving!

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Adversar



“Do’s”

Do: Utilize All Available Privacy Settings

Customize available settings
to be as secure as
possible

- “Everyone” may be
accessed by anyone with
acc
- H
sett

Over 120





“Do’s”

Do: Watch Your Friends Settings

Sure your profile is secure, but what about your 115 friends profile settings?





“Do’s”

Do: Closely Monitor Your Children’s Use of the Internet

- Cyber-bulling
- Kidnapping
- “Sexting”
- Stalking
- Pedophiles
 - 500,000+ registered sex Offenders in the USA
 - 95,000 registered sex offenders profiles on Myspace





“Do’s”



Do: Verify Links & Files Before Executing

Would you follow a link in e-mail? Would you download and run an attachment? Then why do you do these things on SNS's?

- Phishing scams
- Malicious coding
- Viruses
- Scareware

**Verify before
executing!**



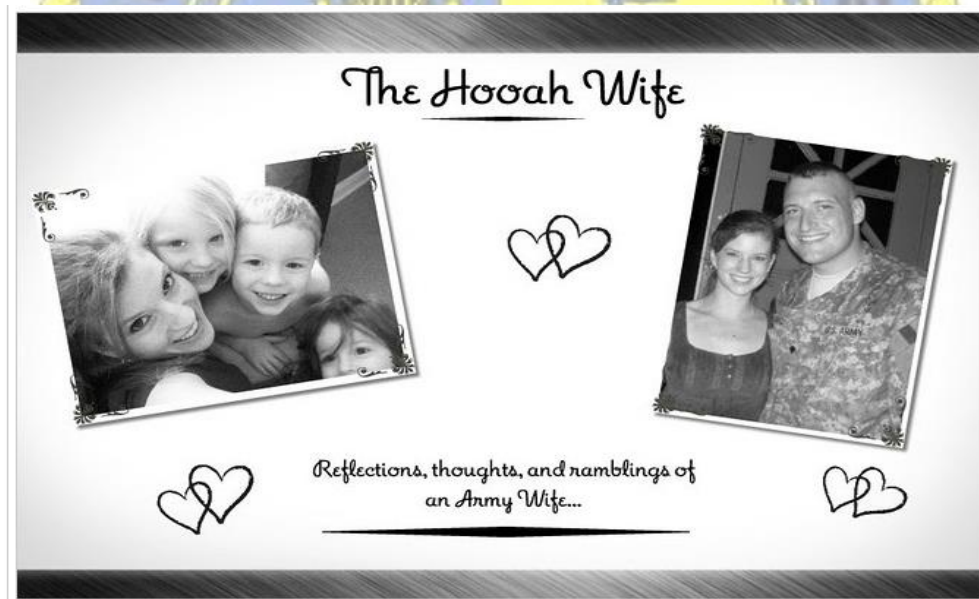


“Do’s”



Do: Blog with Caution

- Avoid details, don't get personal
- Who is reading your blog?
- Lessons learned 101 for the adversary





“Do’s”

Do: Understand the Risks Associated with Geotagging

- Location/GPS data attached to photos
- Feature in Smartphones and digital cam
 - Lat/Long
 - Device details
- “Check-in” feature
 - Facebook Places
 - Google Latitude
 - Foursquare
 - Gowalla



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“Do’s”



Do: Be an Informed User of a SNS

- How much personal information do you broadcast?
- Are you very careful about what details you post?
- Do you understand data aggregation issues?
- Are you willing to find and learn all the security settings and keep up with them as they change?

Are you willing to accept the
risk?

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“Do’s”



Do: Have a Contingency Plan

- KIA, MIA, POW
- What details will the adversary have to use against you?
- What information will the media have access to?
- Power of Attorney
- Memorial pages





“Do’s”



Do: Assume the Internet is FOREVER

- There is no true delete on the internet
- WWW means World Wide Web
- Every Picture
- Every Post
- Every Detail

forever



“Do’s”



Do: Understand Official DON Guidance That Governs Military Personnel Use of SNS’s

- DON ALNAV 056/10 Official Internet Posts
 - Social media posts in an official capacity
- DON ALNAV 057/10 Unofficial Internet Posts
 - Any content posted about the DON by DON personnel in an unofficial & personal capacity
 - DON personnel are responsible for all DON-related content they publish on the internet





“Don’ts”



Don't: Use the Same Passwords

- Hackers count on users using the same passwords for multiple accounts
- Password1 is not a strong password

Password:

Strength:

Weak

flickr - iwanwath - password



“Don’ts”



Don't: Depend on SNS's Security Settings

But it's set to private ... right?

- Hackers
- Incorrect or incomplete settings
- Sale of data
- Upgrades/site changes
- “Risks inherent in sharing information”
- “USE AT YOUR OWN RISK. We do not guarantee that only authorized persons will view your information.”





“Don’ts”

Don’t: Trust Add-On’s or Applications

- Plugins, Games, Applications
 - Third Party Software
 - Applications designed to collect data
 - Malicious code
 - Separate terms of use & privacy
 - “We are not responsible for third party circumvention of any privacy settings or security measures.”






“Don’ts”

Don’t: Grant the Same Access to Everyone

- Don’t treat all Friends equally
- Control & customize individual access
- Do create groups
 - Poker club
 - Family
- Set permissions for everything:
 - Your status
 - Photos
 - Postings



About me About Me refers to the About Me description in your profile	
Personal Info Interests, Activities, Favorites	Only Friends ▼
Birthday Birth date and Year	Only Friends ▼
Religious and Political Views	Only Friends ▼
Family and Relationship Family Members, Relationship Status, Interests	Only Friends ▼
Education and Work Schools, Colleges and Workplaces	Only Friends ▼
Photos and Videos of Me Photos and Videos you've been tagged in	Only Me ▼
Photo Albums	Only Friends ▼
Posts by Me Default setting for Status Updates, Links, and Photos	Only Friends ▼
Edit Settings	
Only Friends ▼	

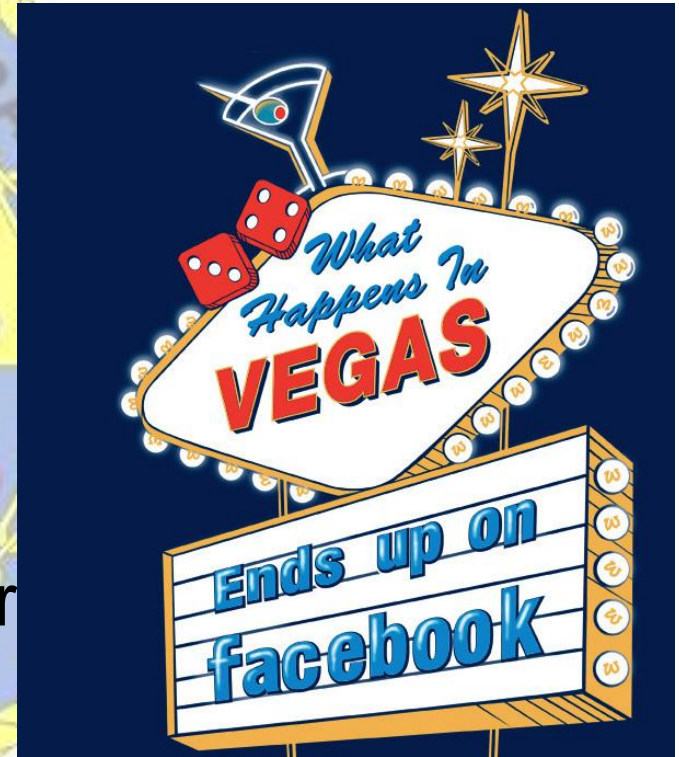


“Don’ts”



Don't: Discuss Details

- Never post anything you would not tell directly to the enemy
- Never post private or personal information- no matter how secure you think your settings are
- Assume the information you share will be made public



Details make you
vulnerable

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Questions?



Countries don't have friends...



They have interests. Which country is interested in what you do?