

-----Original Message-----

From: DAADMINISTRATOR@PTSC.PENTAGON.MIL  
[mailto:DAADMINISTRATOR@PTSC.PENTAGON.MIL] On Behalf Of COMNAVNETWARCOM  
NORFOLK VA Posted At: Friday, August 22, 2008 9:46 Posted To: NAVY-HQ-DONCIOMessages

Conversation: NMCI INFORMATION BULLETIN (NIB 04E), DATA AT REST (DAR) ENCRYPTION  
SOLUTION IMPLEMENTATION  
Subject: NMCI INFORMATION BULLETIN (NIB 04E), DATA AT REST (DAR) ENCRYPTION  
SOLUTION IMPLEMENTATION  
Importance: Low

UNCLASSIFIED//

PRECEDENCE TO: ROUTINE DTG: 212100Z AUG 08  
PRECEDENCE CC: ROUTINE  
TYPE: DMS SIGNED/ENCRYPTED  
FROM PLA: COMNAVNETWARCOM NORFOLK VA  
FROM D/N: C:US,O:U.S. Government,OU:DoD,OU:Navy,OU:Organizations(uc),  
L:Virginia,L:NORFOLK,OU:COMNAVNETWARCOM NORFOLK VA(uc)  
SUBJECT: NMCI INFORMATION BULLETIN (NIB 04E), DATA AT REST (DAR) ENCRYPTION  
SOLUTION IMPLEMENTATION  
TEXT:  
UNCLASSIFIED//

UNCLAS  
MSGID/GENADMIN,USMTF,2007/NETWARCOM/-/AUG//

SUBJ/NMCI INFORMATION BULLETIN (NIB 04E), DATA AT REST (DAR)/ENCRYPTION  
SOLUTION IMPLEMENTATION//

REF/A/MSGID:MEMO/OMB/23JUN2006/M-06-16//  
REF/B/MSGID:MEMO/DOD CIO/03JUL2007/-/NOTAL// REF/C/MSGID:RMG/DON  
CIO/091256ZOCT2007/-/NOTAL// REF/D/MSGID:RMG/JTF-GNO/080911ZJAN2008/-/NOTAL//

REF/E/MSGID:RMG/JTF-GNO/050007ZJUN2008/-/NOTAL//  
REF/F/MSGID:DOC/DODD 5230.9/09APR1996//  
REF/G/MSGID:DOC/DODI 5230.29/06AUG1999// REF/H/MSGID:RMG/COMNAVNETWARCOM  
NORFOLK VA/041800ZMAY2007//

NARR/REF A IS OMB MEMO, PROTECTION OF SENSITIVE AGENCY INFORMATION. REF B IS  
DOD CIO MEMO, ENCRYPTION OF SENSITIVE UNCLASSIFIED DATA AT REST ON MOBILE  
COMPUTING DEVICES AND REMOVABLE STORAGE MEDIA. REF C IS DON CIO MESSAGE,  
DON ENCRYPTION OF SENSITIVE UNCLASSIFIED DATA AT REST GUIDANCE.

REF D IS JTF-GNO COMMUNICATIONS TASKING ORDER (CTO) 08-001, ENCRYPTION OF  
SENSITIVE UNCLASSIFIED DATA AT REST (DAR) ON MOBILE COMPUTING DEVICES AND  
REMOVABLE STORAGE MEDIA USED WITHIN THE DEPARTMENT OF DEFENSE (DOD).

REF E IS JTF-GNO COMMUNICATIONS TASKING ORDER (CTO) 08-009, IMPLEMENTATION  
TIMELINES FOR ENCRYPTION OF SENSITIVE UNCLASSIFIED DATA AT REST (DAR) WITHIN  
THE DOD. REF F IS DOD DIRECTIVE 5230.9, CLEARANCE OF DOD INFORMATION FOR

PUBLIC RELEASE. REF G IS DOD INSTRUCTION 5230.29, SECURITY AND POLICY REVIEW OF DOD INFORMATION FOR PUBLIC RELEASE. REF H IS NAVY TELECOMMUNICATIONS DIRECTIVE (NTD) 04-07, USE OF REMOVABLE STORAGE MEDIA.//

POC/SETH B. GANG/CIV/UNIT:NETWARCOM/NAME:NORFOLK VA/TEL:757-417-6754  
X3/TEL:DSN 537-6754 X3/EMAIL:SETH.GANG(AT)NAVY.MIL// POC/ERICK  
MESSING/CTR/UNIT:PM NMCI/NAME:ARLINGTON VA/TEL:703-699-3261  
/EMAIL:FREDERICK.A.MESSING.CTR@NAVY.MIL//

GENTEXT/REMARKS/1. THIS BULLETIN CONTAINS INFORMATION AND OUTLINES ACTIONS FOR NMCI USERS TO PREPARE FOR THE ROLLOUT OF GUARDIANEDGE, WHICH WILL BE IMPLEMENTED ON ALL NMCI NIPR COMPUTERS AND REMOVABLE STORAGE DEVICES (THUMB DRIVES, DATA CD, ETC.) USED ON NMCI.

2. BACKGROUND: IAW REFS A THROUGH H, THE NAVY IS REQUIRED TO PROTECT DATA RESIDING ON NIPR SEATS AND REMOVABLE STORAGE DEVICES FROM SECURITY BREACHES. THIS INFORMATION IS CALLED DATA AT REST (DAR), WHICH REFERS TO ALL DATA IN COMPUTER STORAGE ON HARD DRIVES AND PORTABLE STORAGE DEVICES INCLUDING BLACKBERRIES. IMPLEMENTATION OF A DAR SECURITY ENCRYPTION APPLICATION IN NMCI IS UNDERWAY USING A COMMERCIAL-OFF-THE-SHELF (COTS) SOLUTION, CALLED GUARDIANEDGE DATA PROTECTION PLATFORM.

3. THE FOLLOWING PARAGRAPHS EXPLAIN TWO DISTINCT DAR ENCRYPTION CAPABILITIES PROVIDED FOR BY THE GUARDIANEDGE SOLUTION.

A. FULL DISK ENCRYPTION (FDE): FDE PROTECTS AGAINST UNAUTHORIZED READING OR COPYING OF DATA OFF A PROTECTED HARD DRIVE. THIS COMPONENT ALSO PROVIDES PRE-BOOT AUTHENTICATION (PBA), ALLOWING ONLY REGISTERED USERS TO BOOT WORKSTATIONS FOLLOWING AUTHENTICATION USING THEIR COMMON ACCESS CARD (CAC) OR ALTERNATE LOGON TOKEN (ALT). END USER REGISTRATION TO WORKSTATIONS FOR PBA ENSURES FDE KEYS ARE LOADED INTO WORKSTATION MEMORY ONLY FOR AUTHORIZED USERS.

B. REMOVABLE STORAGE ENCRYPTION: MANDATORY ENCRYPTION OF DATA COPIED TO REMOVABLE STORAGE DEVICES, SUCH AS USB THUMB DRIVES, EXTERNAL HARD DRIVES OR COMPACT DISCS/DIGITAL VERSATILE DISCS (CD/DVD), PROTECTS ALL DATA TRANSFERRED OFF A DAR-PROTECTED WORKSTATION. FOR INTEROPERABILITY AND EASE OF USE, THE NMCI DAR SOLUTION WILL ALSO COPY A UTILITY TO REMOVABLE STORAGE DEVICES THAT MAY BE USED TO DECRYPT DATA ON NON-DAR WORKSTATIONS.

4. ALL NMCI USERS SHALL COMPLETE THE FOLLOWING ACTIONS TO PREPARE FOR GUARDIANEDGE ON THEIR COMPUTERS:

A. COMPLETE TWO USERS TRAINING MODULES ON DAR SECURITY. THESE MODULES CONTAIN IMPORTANT INFORMATION ON HOW TO PREPARE FOR DAR, HOW IT WILL AFFECT YOUR NMCI SEAT AND THE USE OF PORTABLE STORAGE DEVICES.

NMCI DAR TRAINING IS LOCATED ON THE NMCI HOMEPORT AT [HTTPS:\(SLASH\)SLASH\)WWW.HOMEPORT.NAVY.MIL/TRAINING/SECURITY/DAR/](https://www.homeport.navy.mil/training/security/dar/)

B. USERS SHOULD BACK-UP THEIR DATA IN ORDER TO MITIGATE THE RISK OF LOSS BEFORE, DURING AND AFTER THE IMPLEMENTATION OF DAR SECURITY.

DATA SHOULD BE BACKED UP TO A LOCATION OTHER THAN THE HARD DRIVE. EACH NMCI USERS IS ALLOTTED 700MB OF PERSONAL STORAGE ON THE NMCI NETWORK DRIVE.

DETAILED BACKUP INSTRUCTIONS ARE LOCATED AT [HTTPS:\(SLASH SLASH\)WWW.HOMEPORT.NAVY.MIL/TRAINING/TIPS/BACKUP-DATA/](https://www.homeport.navy.mil/training/tips/backup-data/)

5. WHEN ENCRYPTED DATA IS PROTECTED BY LOST AND/OR EXPIRED PKI ENCRYPTION CERTIFICATES, USERS SHALL OBTAIN COPIES OF THOSE CERTIFICATES FROM THE DOD AUTO KEY RECOVERY AGENT (AKRA) IN ORDER TO DECRYPT THEIR PROTECTED DATA. THE AKRA IS AVAILABLE ON THE INTERNET AT [HTTPS:\(SLASH SLASH\)ARA-1.C3PKI.CHAMB.DISA.MIL/ARA/KEY](https://ara-1.c3pki.chamb.disa.mil/ara/key).

6. USERS WILL RECEIVE NOTIFICATION VIA AN EMAIL USER ALERT INDICATING THE EXACT DATE THEY WILL RECEIVE GUARDIANEDGE. A DETAILED SCHEDULE WILL ALSO BE PUBLISHED VIA THE NMCI HOMEPORT. FULL NMCI NIPRNET DEPLOYMENT IS SCHEDULED TO BE COMPLETE BY 31DEC2008.//

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ORIGINAL TO RECIPIENTS:

C:US,O:U.S. GOVERNMENT,OU:DOD,OU:NAVY,OU:ADDRESS LISTS(UC),CN:AL  
ALNMCI(UC)  
[ALNMCI]

C:US,O:U.S. GOVERNMENT,OU:DOD,OU:AUTODIN PLAS,OU:AIG 6-AZ,OU:ALNMCI  
[ALNMCI]

ORIGINAL CC RECIPIENTS:

C:US,O:U.S. GOVERNMENT,OU:DOD,OU:NAVY,OU:ORGANIZATIONS(UC),  
L:VIRGINIA,L:ARLINGTON,OU:PM NMCI ARLINGTON VA(UC)  
[PM NMCI ARLINGTON VA]

C:US,O:U.S. GOVERNMENT,OU:DOD,OU:NAVY,OU:ORGANIZATIONS(UC),  
L:VIRGINIA,L:NORFOLK,OU:COMNAVNETWARCOM NORFOLK VA(UC)  
[COMNAVNETWARCOM NORFOLK VA]

C:US,O:U.S. GOVERNMENT,OU:DOD,OU:NAVY,OU:ORGANIZATIONS(UC),  
L:VIRGINIA,L:NORFOLK,OU:NAVNETWARCOM GNOC DET NORFOLK VA(UC)  
[NAVNETWARCOM GNOC DET NORFOLK VA]

PROFILED DISSEMINATES:

CNONTS(UC) @ DA ACC COMPONENTS(UC) @ WASHINGTON DC @ CONUS @  
ORGANIZATIONS @ ARMY (TO) DMSFORAUG21@PTSC.PENTAGON.MIL (CC)  
DMSFORAUG@PTSC.PENTAGON.MIL (CC) LAMAR.HALL1@NAVY.MIL (CC) NAVY-HQ-  
NAVSTAT@NAVY.MIL (CC) FSA\_MDS@NAVY.MIL (CC) M09B172-MSG@MED.NAVY.MIL  
(CC) M09BB13.MSGS@MED.NAVY.MIL (CC) NAVY-HQ-ALNMCI@AJCC.NAVY.MIL (CC)  
NAVY-HQ-ALNMCI@NAVY.MIL (CC) NAVY-HQ-CNOMESSAGES@NAVY.MIL (CC) NAVY-HQ-  
CNON09N2MESSAGES@NAVY.MIL (CC) NAVY-HQ-DONCIOMESSAGES@AJCC.NAVY.MIL  
(CC) NAVY-HQ-DONCIOMESSAGES@NAVY.MIL (CC) NAVY-HQ-GENERAL@NAVY.MIL (CC)  
NAVY-HQ-GENERALMESSAGES@AJCC.NAVY.MIL (CC) NAVY-HQ-  
N09BFTRAFFIC@NAVY.MIL

(CC) NAVY-HQ-N09GMESSAGES@NAVY.MIL (CC)  
NAVY-HQ-N61GWATCHOFFICER@NAVY.MIL (CC) NAVY-HQ-OGCMESSAGES@NAVY.MIL  
(CC) DA ID: 1999589

MTSID: c=US;a=DMS;l=ONION-080822133435Z-918

SIGNED BY: C:US,O:U.S. Government,OU:DoD,OU:NAVY,

OU:Organizations(uc),L:Virginia,L:NORFOLK,

OU:COMNAVNETWARCOM NORFOLK VA(uc) \*\*\* VALIDATED \*\*\* ENCRYPTED BY:

C:US,O:U.S. Government,OU:DoD,OU:NAVY,OU:Address  
Lists(uc),CN:AL ALNMCI(uc) \*\*\* VALIDATED \*\*\* MESSAGE TYPE: OTHERORG

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