





Navy Cash Training

Disbursing Unit 6: Maintenance Procedures







- Provide an overview of Navy Cash Equipment
- Explain hardware maintenance and troubleshooting procedures
- Discuss how to replace damaged or lost parts and components
- Discuss Distance and Online Support
- Explain software maintenance procedures
- Discuss Casualty Reporting procedures



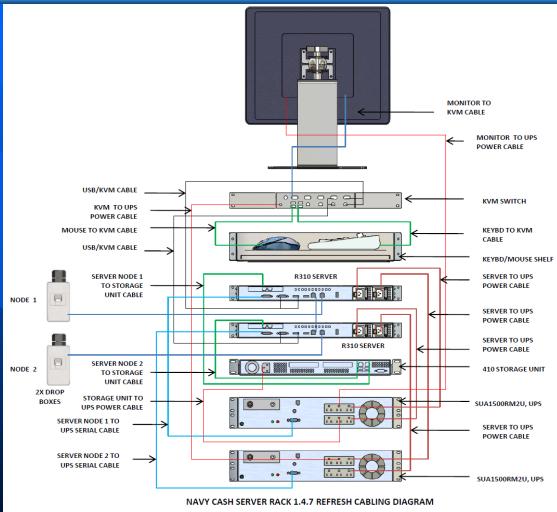


Equipment Overview





Navy Cash Server









System Equipments

■ Server



Switches or Routers



- Rack-mounted in Disbursing or Supply
 Made up of two servers or "nodes"
- Mounted behind the Kiosks
 Minimal Disbursing interaction required





Card Accepting Device (CAD)

- Installed in Vending Machines
- Uses SAM to interact with the Chip on a Navy Cash Card
- Uses a SD Card to store transactions when offline
- **3** Hidden Buttons
- Can function in online or offline mode







MT 280 Point of Sale Device

Used by ships' merchants to record sales transactions
 Can be operated online or offline
 Operates with one SD card and one SAM Chip







Navy Cash Kiosk

- Used to move funds between home bank and Navy Cash Card
 Used to make PIN changes
 Used to *Check-in* to the ship
 Requires continuous network connection to Navy Cash Server to process a transaction
- Uses a SAM to interact with the Chip on a Navy Cash card





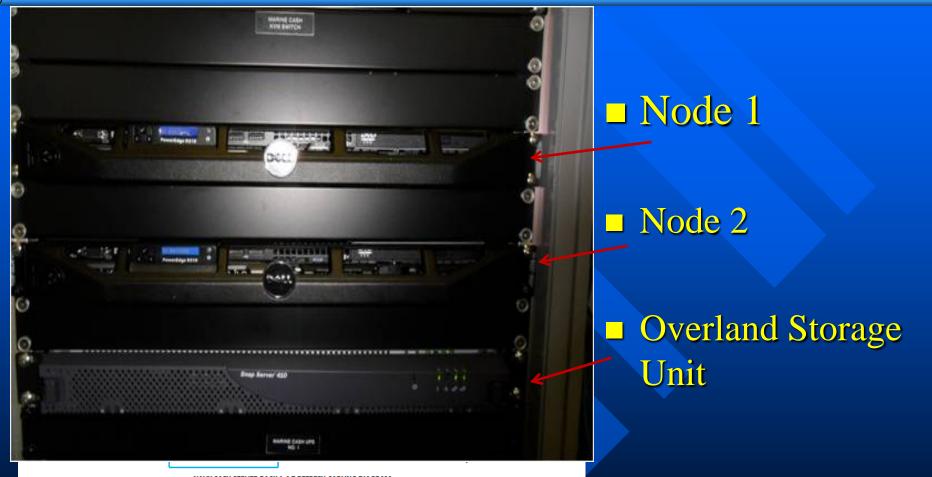


Powering System On/Off





Navy Cash Server Setup





Redefining Ingenui



Power-on Sequence



 Power on the Overland Storage Unit
 Power on the 1st node and log in
 Power on the 2nd node and log in
 Launch Failover Cluster Manager and ensure resources show ONLINE

Note: For more detailed procedures, refer to your Navy Cash Quick Info sheet attached to the Navy Cash Server





Power Off Sequence



Start at Node 2 and perform Windows shut down sequence

Switch to Node 1 and perform Windows shut down sequence

Power-off the NAS / RAID

This procedure assumes that Node 1 is in control

Note: For more detailed procedures, refer to your Navy Cash Quick Info sheet attached to the Navy Cash Server





MX 925 Sign On



■ Power on the MX-925 ■ Ensure MX-925 is paired with workstation or laptop Ensure MX-925 is Online with the Ship's network via the Navy **Cash Server**





MT 280 Sign On



- Power on the MT-280
- Ensure MT-280 is communicating with Navy Cash Server
- Requires at least one configured merchant
- If no merchant is configured, "No Configured Merchant" message is displayed





Power On CADs and ATMs

- CADs and Kiosks should remain powered on at all times unless performing maintenance
 - CADs are simply plugged in the vending machine with no power switch
 - Kiosks are plugged to the UPS









Hardware Maintenance Procedures





Ownership

- Navy Cash Accountable Officer (DISBO) and Navy Cash Deputy
 - Own, operate, and maintain Navy Cash servers, workstations, laptops, POSs, Kiosks, CADs

Ships IT

- Owns, operates, and maintains the ship's network configuration
- Has primary responsibility to support Navy Cash network and communication issues





Training

Navy Cash Accountable Officer (DISBO)

- Ensures Navy Cash Deputy and Ship's IT are trained on Navy Cash Operations, maintenance, and troubleshooting
- Refresher courses are provided by SAIC (Navy Cash Contractor) in Fleet Concentration areas on a regular basis





Preventive Maintenance

Daily

 On Navy Cash Server, Check Failover Cluster Management

» A change of nodes could indicate a failure of a component or failure of NC service

Check the status of Round Trips
 » Engage Ship's IT if a pending batch is not completed within 6 hours





Preventive Maintenance (cont.)

Weekly

- Wipe down all unit screens
- Clean card readers in the MT 280s, KIOSKs, and CADs
 - » Use card reader cleaners





Troubleshooting NC Equipment

Communication Issues

 Refer to Communications Troubleshooting Guide
 » Appendix S of NC SOP

 Technical Support

 Phone: Navy Cash CSU – 1-866-662-8922
 E-mail: navycashcenter@frb.org





Troubleshooting NC KIOSK

Start-up Messages

- Series of screens which shows the current state of the Kiosk as it starts up
- Examples of Start-up Error Messages
 - » *Out of Service–C1 main card reader cannot be activated*
 - » Out of Service S2 SAM is detected but cannot be activated
 - » Out of Service N1 network communications cannot be established
 - » Out of Service T1 Terminal ID for Kiosk is not set





Troubleshooting NC KIOSK- cont.

Technical Support:
 – Navy Cash Central Support Unit (CSU)
 » Phone: 1-866-662-8922
 » navycashcenter@frb.org





Troubleshooting POS

Rebooting the POS should always be the first step in troubleshooting
Clean or replace SAM chip
Replace SD card
Replace any faulty POS with a new unit. Each ship is issued several spares.





Troubleshooting POS (cont.)

Error Messages:

- Error Initializing SAM
 - » May occur during POS initialization because SAM is not present
 - Action: Install SAM in POS device
- Error Authenticating Card
 - » Card is blocked
 - Action: Have cardholder report to Disbursing





Troubleshooting POS (cont.)

Error Messages (cont)

– Examples:

» SD Card Error – SD card is not present or SD card message queue is full

Action: Install SD card or if POS is offline and SD card is full, plug POS into network connection point

» SAM Error – SAM needs to be replaced

Action: Clean SAM or replace SAM

» Boot up Errors (various) – occur when starting POS

Action: Insert good SAM or SD Card, or reboot POS



Verify if ship's network is up

- If network is down, do not cycle power
- CAD can operate in offline mode
- Verify if routers are powered on
- Check the cables from the CADs to the routers
- Cycle power to the vending machine (turn off and turn on vending machine)
- Clean SAM chip or Replace SAM chip
- Check USB Stick
- Replace CAD from stock





Troubleshooting CAD (cont.)

For Technical Assistance

- Contact Navy Cash Central Support Unit (CSU)
- CSU will assign a case number that will be used to track the trouble call
- CSU will handle trouble call directly or forward it to the proper person
- Use Navy Cash Trouble Call Worksheet





Failed CADs

- When directed to return CAD to NC Depot, record the traceable tracking number and date shipped on the Trouble Call Worksheet
 Include Case # assigned by CSU and equipment
 - serial number





Stuck transactions

- When directed, CADs with stuck transactions are sent to Cogent Systems
- Record the traceable tracking number and date ship on the Trouble Call Worksheet
- Include Case # assigned by CSU and equipment serial number
- Sales Officer will retain a copy of the Trouble
 Call Worksheet with monthly report





Card Readers

- Proper cleaning of the card readers can significantly reduce the incidence of card readers failing to read a Navy Cash Card
- Shipboard Network or NC Server down for extended period
 - Revert to accepting cash (if authorized by CO)
 - Replace CAD with a dollar bill validator and/or turning on the coin changer





Error Messages are displayed if :

- CAD is disabled
- Vending Machine is out of stock
- System Error
- Examples:

» CAD Disabled – no communications between CAD and MDB interface

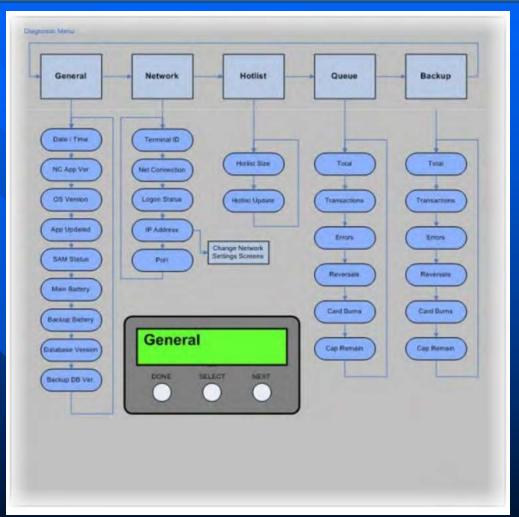




CAD Diagnostic

Screen

Provide tools that can be helpful in managing, diagnosing, and solving problems with the CAD







Navy Cash Trouble Call Worksheet

Navy Cash Trouble Call Worksheet

- Used in reporting hardware, software, communications, or operation
- Completed form lays out information
 DISBO/Deputy DO needs before contacting CSU
- Case number assigned by CSU and equipment serial number should be included with all returns





Trouble Call Worksheet

	NAVY (Please be prepared	to provid	de the informatio	E CALL WOR on below to the Cent r Trouble Call Log				
	V	CE Phon E-Ma Fa Veb Sit	e: (866) 6N (866) 662 ail: navycas x: (617) 61	hcenter@frb.org				
OTCnet Paper Check Conversion OTCnet CUSTOMER SERVICE TEAM (866) 945-7920 (302) 323-3159 DSN: (510) 428-6824 fiscalservice, otcchannel@citi.com			ROM CONTACT APPROPRIATE FLEET ASSISTANCE TEAM SAN DIEGO: (619) 556-5725/5733 YOKOSUKA: 011-8146-816-7965 NORFOLK (757) 443-2522 MAYPORT: (904) 270-7178					
SHIP NAME			DATE OF CALL			TIME OF CALL		
SHIP LOCATION/PORT (AND COUNTRY IF DEPLO			ED) CASE NUMBER (obtained from CS			NAME OF CSU REPRESENTATIVE		
CALLER NAME			RANK/RATE PHONE		E-MAIL ADDRESS			
POINTS OF	CONTACT SO TECHN	ICAL OF	R FIELD SUPPOR	T REPRESENTATIVE	CAN	CONTACT SHIP IF REQUIRED		
LOCATION	NAME		RANK/RATE	PHONE		E-MAIL ADDRESS		
DISBURSING OFFICE								
SALES OFFICE								
SUPPLY OFFICE								
EMO/ADP OFFICE								
QUARTERDECK								
IF A HARDWARE PROBL	EM, IDENTIFY SPECI	FIC EQU	IPMENT, MODEL	NUMBER, AND SERI	AL NI	JMBER		
SERVER:		SWITCH:			KIOSK:			
VORKSTATION:		UPS:			POS DEVICE:			
DISPLAY:		KVM SWITCH:			CAD (VENDING):			
LAPTOP:					t			
OTHER:		ROM:				OTCnet SCANNER:		

		eded)			
DESCRIBE ANY TROUBLESHOOTING STEPS YOU SOP, SYS ADMIN Manual, Maintenance CD, MI					
SHIPPING INFORMATION					
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Central Support Unit (CSU)

- When on-site troubleshooting cannot remedy the issue, contact the Navy Cash CSU for further support:
 - The Navy Cash CSU issues a case number when receiving a trouble call
 - The Navy Cash CSU determines the severity of the issue and the response necessary to assist
 - The Navy Cash CSU will provide phone support, a tech visit or trainer visit if deemed necessary to fix the problem
 - Ensure to utilize the Navy Cash Trouble Call
 Worksheet when contacting the Navy Cash CSU





Central Support Unit (CSU)

- When contacting the Navy Cash CSU, always have:
 - Precise description of the problem
 - List of troubleshooting procedures that have been tried (i.e. power up/down server, switch nodes, cycle power on Kiosk or vending machines, etc.) and the results

<u>Note</u>: The more specifics provided, the better the assistance that will be provided in troubleshooting and correcting the problem.





Distance/On-site Support





Distance/On-Site Support

Tier 1 Support

- Provided by Navy Cash CSU, 24/7
 - » Answers calls and takes basic info about any technical problem
 - » Forwards trouble calls to Navy Cash Technical Support (NCTS) Team
 - » CSU assigns a case number, tracks problem

Tier 2 Support

- Provided by Navy Cash Technical Support Team
 - » Provides troubleshooting guidance to the fleet via phone and email
 - » Assisted by Navy Cash Depot





Distance/On-site Support

Tier 3 Support

- Onsite technical assistance
- Resolve Navy Cash-specific problems that cannot be resolved over the phone or e-mail
- Generally used when all other Distance Support troubleshooting efforts have been exhausted
- Provided by Treasury Agent NCTS and Navy Cash Depot





Distance/On-site Support

Critical Issues

- CSU forwards issue to NCTS immediately
- Examples are:
 - » One server node is down and cannot transfer control to second node
 - » Cluster Administrator NCP and NCService resources are offline
 - » All Navy Cash Kiosks are offline
 - » All devices are offline (POS, Kiosks, and CADS)
 - » Communication/no round-trip (i.e. 5 or more days) issues
 - » End of Month (EOM) issues (within last 4 days of month)
 - » SPO affecting multiple members
 - » Any issue involving Admiral, CO, or XO







GotoAssist

- Browser-based service that enables NCTS (or NC Depot) to access and control the Navy Cash system remotely
- Allows NCTS (or NC Depot) to troubleshoot and resolve issues and provide technical support
 - » NCTS sends a secure e-mail to DISBO with a unique remote session key code and provide instructions
 - » DISBO must maintain an updated POC information on the Navy Cash Disbursing Website





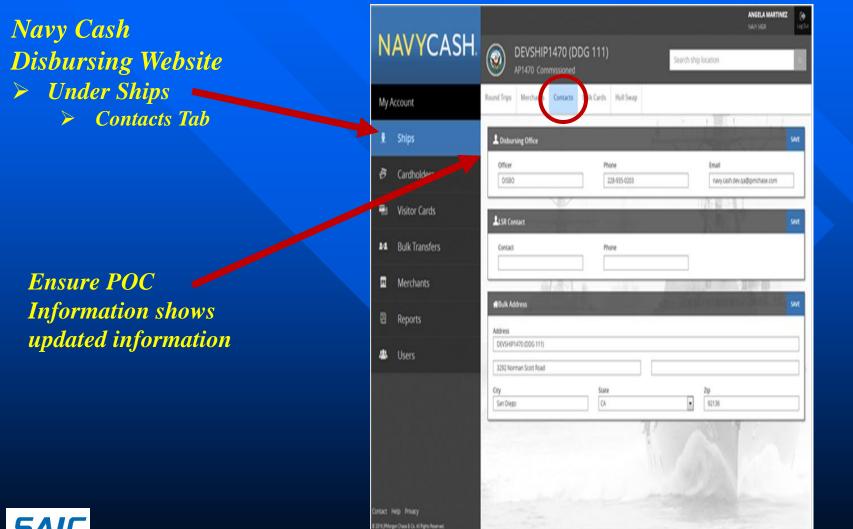


- Remote access support is limited to:
 - » critical issues
 - » system back-up failures
 - » security audits
 - » preparations for security inspections
 - » <u>Note:</u> For critical issues, it is recommended that DO <u>calls</u> CSU rather than sending an e-mail to ensure that case is escalated properly.





Disbursing Contact Info







Replacing Damaged/Lost Components





Replacing Damaged/Lost Components

- Spare components are provided as a part of the NC installation
 - Part for Part replacement policy (return the bad device before a replacement is sent)
- The Sales Officer is responsible for all CADs
- Disbursing Officer is responsible for all MT 280s
- Navy Cash Depot maintains replacement spares
 - A DD Form 200 (Financial Liability Investigation of Property Loss) is required before replacing a lost device





Shipping Equipment





Shipping POS Device

Packaging MT 280 for shipment

- Shipping/Mailing MT280
 - » Remove rechargeable lithium-ion battery
 - » Imbedded lithium-metal back-up battery is *installed* in MT 280
- Ship via traceable means (UPS, USPS, FedEx, etc)
- Treated as air shipments
- Include an Accompanying Lithium Battery Document





Shipping POS Device

ACCOMPANYING LITHIUM BATTERY DOCUMENT

This package contains lithium cells or batteries in the following configuration (check applicable).

LITHIUM ION	LITHIUM METAL
Maximum of:	Maximum of:
• 20 Watt-hours (Wh) per cell; and	1 gram (g) of lithium metal per cell; and
• 100 Wh per battery	2 g of lithium per battery
Cells or Batteries Only (ICAO/IATA Packing Instruction 965, Section II) Cells or batteries in a package,	Cells or Batteries Only (ICAO/IATA Packing Instruction 968, Section II) Cells or batteries in a package,
without electronic equipment Package Limit: • ≤ 2.7 Wh = 2.5 kg or • > 2.7 Wh but ≤ 20 Wh = 8 cells or • > 2.7 Wh but ≤ 100 Wh = 2 batteries	without electronic equipment Package Limit: • ≤ 0.3 g = 2.5 kg or • > 0.3 g but ≤ 1 g = 8 cells or • > 0.3 g but ≤ 2 g = 2 batteries
Cells or Batteries Only	Cells or Batteries Only
(ICAO/IATA Packing Instruction 965, Section IB)	(ICAO/IATA Packing Instruction 968, Section IB)
Cells or batteries in a package,	Cells or batteries in a package,
without electronic equipment	without electronic equipment
Contained <u>With Equipment</u> (ICAO/IATA Packing Instruction 966, Section II) Cells or batteries contained in a package with associated electronic equipment	Contained <u>With Equipment</u> (ICAO/IATA Packing Instruction 969, Section II) Cells or batteries contained in a package with associated battery-powered equipment – with the batteries not installed in the equipment
Contained In Equipment	Contained In Equipment
(ICAO/IATA Packing Instruction 967, Section II)	(ICAO/IATA Packing Instruction 970, Section II)
Cells or batteries installed in equipment	Cells or batteries Installed in equipment

. This package must be handled with care. A flammability hazard exists if the package is damaged.

 If this package is damaged in transportation, it must not be loaded until the condition of the contents can be verified. The batteries contained in this package must be inspected for damage and may only be repacked if they are intact and protected against short circuits.

For more information about the batteries contained in this package, call the following telephone number:
 + 1 (866) 662-8922

Name and Address of Shipper (optional)

Name and Address of Consignee (optional)





Disposal of POS Batteries

Disposal

 Dispose depleted batteries (or batteries that will no longer be used) locally following proper procedures

 Likewise, *recalled, damaged, or defective* batteries must be disposed following local procedures

» Do not mail or ship these batteries under any circumstance





Software Maintenance Procedures





Software Maintenance

IAVA

- Information Assurance Vulnerability Management
- Important in maintaining security posture of Navy Cash system
- All known vulnerabilities must be patched effectively and in a timely manner
- Installation Alerts
 - Provide an automated mechanism of applying software updates (includes IAV patches)
 - Ideally, install patches at end of business day





Software Maintenance

■ WSUS (Windows Server Update Services)

 Enable IAV and other software patches to be provided remotely and applied automatically

» Install bug fixes and any new functionality

Anti-Virus Definitions

 Symantec (or McAfee) anti-virus Live Update solution on Navy Cash Severs, Laptops, and workstations

» Configured to automatically retrieve virus definitions on a daily basis directly from Symantec (or McAfee)

Note: A patch should never be applied to the Navy Cash system without direct assistance of Treasury Agent NCTS or SAIC.





Software Maintenance

Navy Cash Laptops

- Digital Sender LAN drop is available:
 - » All spare laptops (including the Marine Disbursing laptop on LHA/LHDs) must be powered up and connected to the ship's network permanently
- Digital Sender LAN or dedicated LAN drop is not available:
 - » Disconnect workstation and connect laptop to network
 - » Laptop is powered up at least once each week for at least 48 hours
 - » Updates occur automatically, but some updates may require a reboot
- With regular updates, laptop will be ready if it is ever needed as a backup





Casualty Procedures





Casualty Procedures

If off-ship communications go down, the NC system can run independently for several weeks

Anyone with SPO will be credited by using the "Provisional Split Pay Option" under the Utility Function

If the NC Server go down:

- Use MT 280's offline (provided operator is logged on)

- CADs will continue to work unless ship's power is lost



Casualty Procedures

- In a worse-case scenario, go back to using cash
 - Disbursing Office still carries cash
 - Replace CAD with the dollar bill validator and/or coin changer for each Vending Machine
- When the system comes back online, the NC server onboard ship will be updated via shore communications.





Casualty Reporting Procedures

Casualty Report (CASREP)

- CASREP message is sent by ship for urgent maintenance problems beyond shipboard capabilities
 - » include NAVSUPSYSCOM MECHANICSBURG PA//41// for action or information, as appropriate

Replacement parts necessary to enable correction of the CASREP are:

shipped within 24 hours after acknowledgement of receipt of CASREP





Summary

Organizational Level Maintenance

- Ship is responsible for the initial efforts to troubleshoot, isolate, and correct problem
- If device fails, ship is responsible for installing a spare in its place
 - » Selected spares are available on board the ship to replace failed equipment
- In unable to repair, ship initiates a trouble call to Navy Cash CSU





Summary

Trouble Calls

- Ship is responsible for initiating a trouble call
- Navy Cash CSU assigns a case number and forward the call to a technician
- Support personnel cannot take action until a case number is assigned

Navy Cash Depot

- Maintains replacement parts
- Normally, spare parts are shipped business day following receipt of request
- Can expedite shipment the same day when emergency arises











