

Navy – Marine Cash[®] Overview



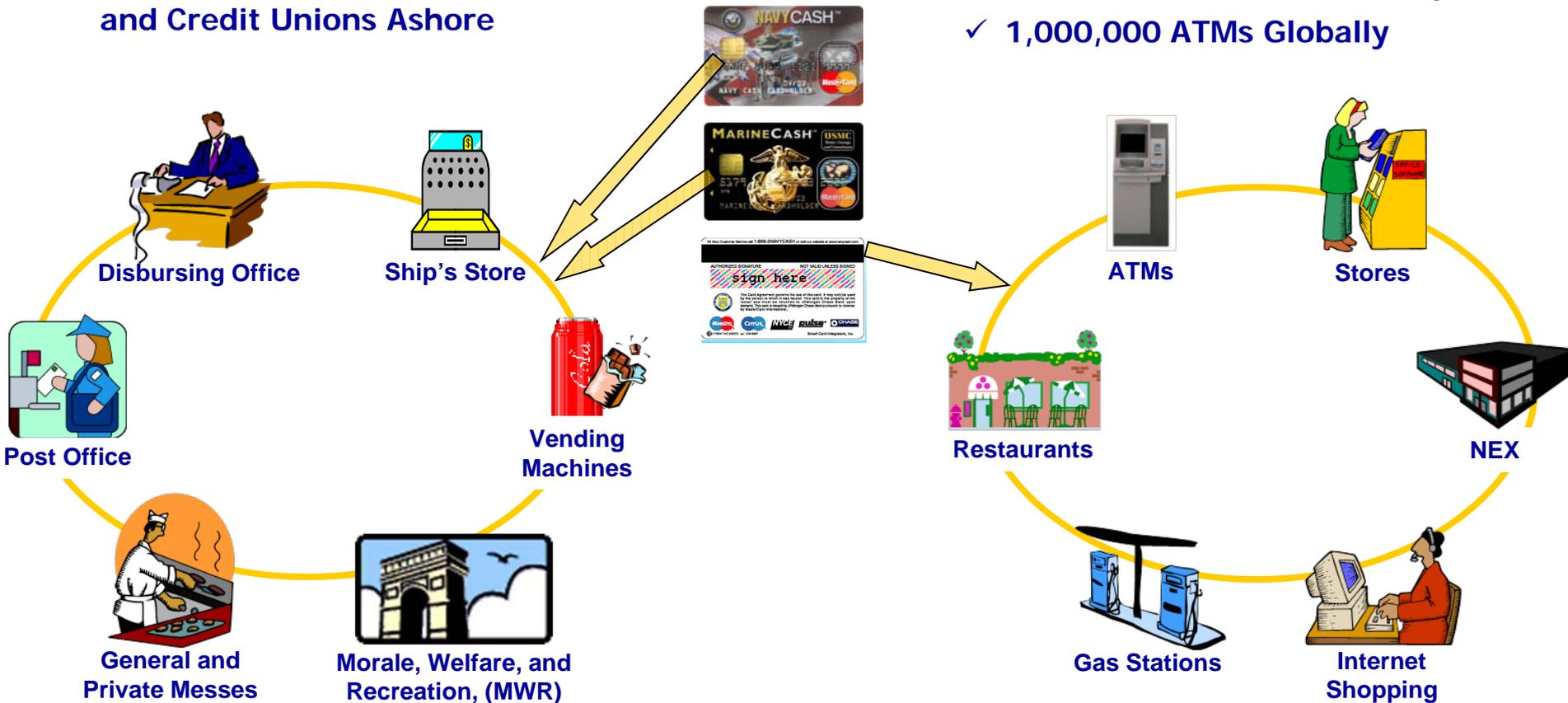
NAVSUP N414
Navy Cash Program Office

Aboard Ship

- ✓ Eliminates Bills and Coins
- ✓ 24/7 Offline Access to Banks and Credit Unions Ashore

Ashore

- ✓ 24/7 Access to Navy Cash Account
- ✓ 23 Million Locations Globally
- ✓ 1,000,000 ATMs Globally



On Board Ship



Kiosk

- ◆ Split pay sent directly to strip account on payday
- ◆ Funds can be transferred from home bank or credit union account to strip or chip and back and between chip and strip
- ◆ Funds can also be transferred from person to person
- ◆ 24/7 access to funds



CAD Device

- ◆ E-funds on chip used for purchases at all retail locations, e.g., Ship's Store, Post Office, vending



POS Device

Ashore

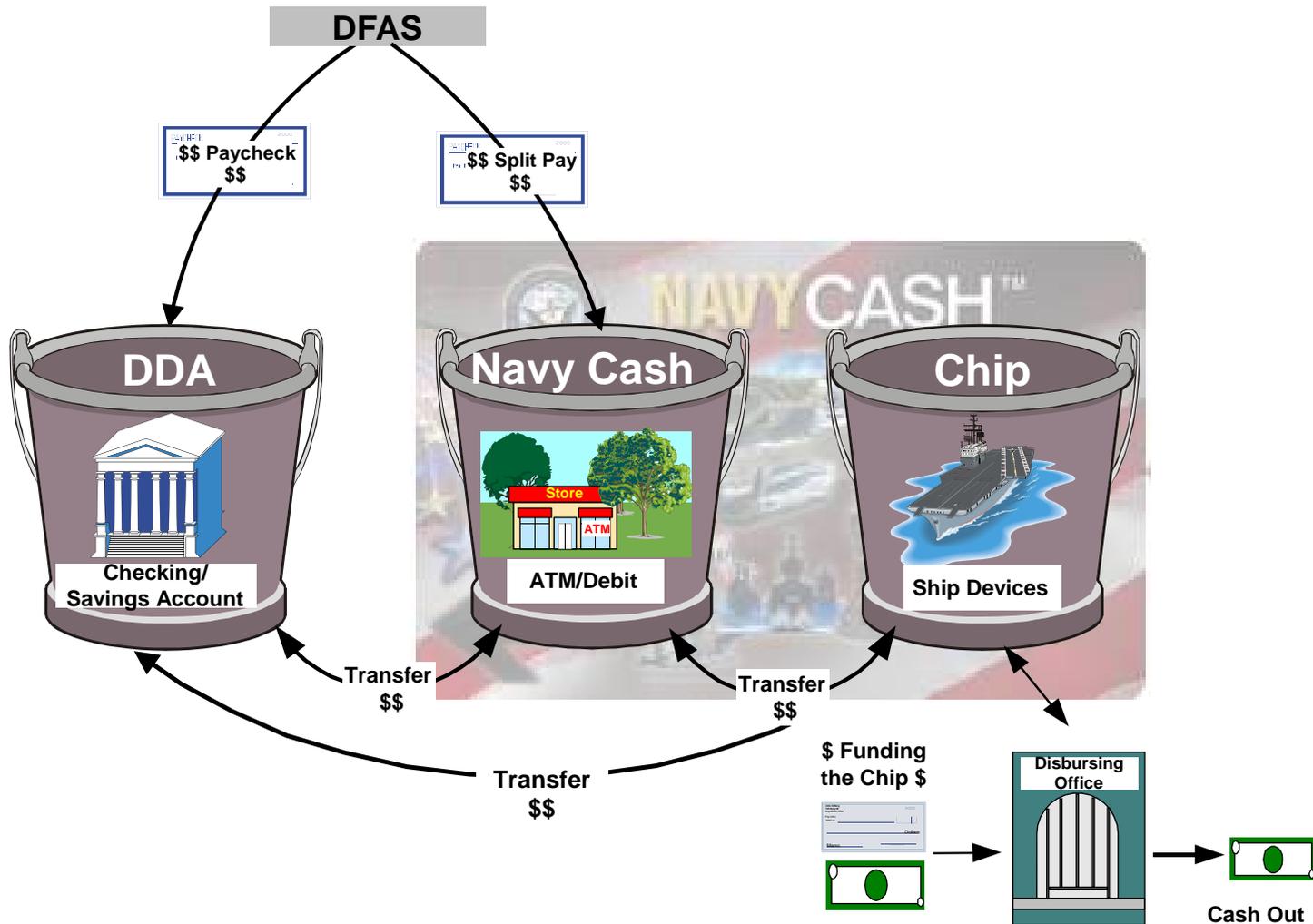


- ◆ Using magnetic strip debit feature, funds in strip account can be used to pay for purchases directly or obtain local currency at ATMs
- ◆ 24/7 access to funds



Benefits

- **Significantly reduce need for bills, coins, checks, and money orders**
- **Reduce cash handling cost**
- **Reduce infrastructure costs**
- **Reengineer/streamline accounting/cash management processes**
- **Minimize redundant and error-prone transactions**
- **More time for core functions**
- **Improve readiness**
- **Better, faster, cheaper, more secure than cash**
- **Personal bank account accessible 24/7— access to all entitlements**
- **Money earns interest in Sailor and Marine accounts ashore**
- **Split Pay sent directly to strip accounts**
- **Automate financial processes**
- **QOL enrichment**





Off-Line ACH Transactions

- ◆ Navy/Marine Cash does not use on-line ATM transactions that verify that funds are available before dispensing cash ...
 - ◆ Would require full-time satellite communications link to financial networks ashore that can only be supported on large-deck ships
- ◆ Uses off-line Automated Clearing House (ACH) transactions to “withdraw” funds from bank or credit union accounts ...
 - ◆ Processes in store-and-forward mode that is supported by more limited comms of small-deck ships
- ◆ Like electronic check cashing ... money must be in account or transaction will “bounce” for Not Sufficient Funds (NSF)
 - ◆ For repeat “offenders,” Disbursing Office can block access to bank and credit union accounts
 - ◆ Transactions returned for NSF are represented automatically, up to two more times on succeeding pay days

◆ Instant Issue Navy Cash Card

- ◆ Access to all Navy/Marine Cash capabilities
- ◆ Pre-embossed with 'Navy Cardholder' and account number—part of spare card stock held by Disbursing Office
- ◆ Issued to new personnel or to replace lost, stolen, damaged, or expiring card

◆ Embossed Permanent Navy/Marine Cash Card

- ◆ Access to all Navy/Marine Cash capabilities
- ◆ Embossed at card facility with individual's name and account number and mailed to ship

◆ Visitor Navy Cash Card

- ◆ Chip-only card for purchases on ship only—no magnetic strip—no Navy/Marine Cash account
- ◆ Part of spare card stock—issued by Disbursing Office primarily to visitors—can also be issued as temporary replacement for lost, stolen, or damaged permanent card
- ◆ Cashed out and turned in when visitor departs and reissued





What About Security?

- ◆ **Magnetic strip and e-purse (chip) are protected by an encrypted PIN**
- ◆ **Entering PIN incorrectly three times blocks card ... Disbursing Office can unblock ... entering PIN incorrectly ten times permanently blocks card ... card must be replaced**
- ◆ **Vending machines do not require a PIN ... but maximum amount that can be accessed without a PIN is \$25**
- ◆ **When reported, lost or stolen Navy/Marine Cash cards are placed on “hot list” and electronically blocked at all card reading devices ... hot-list info is also distributed to financial networks ashore**
- ◆ **The maximum amount that can be placed on the chip is \$1,000**
- ◆ **The maximum amount that can be transferred from your home bank or credit union to your Navy/Marine Cash card each day is \$400**



Orientation Training and Enrollment

- ◆ **Work with ship to develop ship enrollment plan and schedule**
- ◆ **Pre-populate enrollment database and print enrollment forms**
- ◆ **Navy/Marine Cash orientation training and enrollment for ship's crew**
 - ◆ **Critical to initial success of program that every crewmember possible enroll in Navy/Marine Cash prior to activation**
 - ◆ **Difficult process ... need active support from CO, XO, CMC, Department Heads, Wardroom, Chief's Mess to ensure success**
- ◆ **Crewmembers review enrollment forms for completeness, make pen and ink changes as necessary, and sign forms**
- ◆ **Enrollment team updates database and creates database file ... database file and enrollment forms transferred to JPMorgan Chase**
- ◆ **JPMorgan Chase establishes new accounts and begins Navy/Marine Cash card manufacturing process**
- ◆ **Cards distributed to crewmembers 3-4 days before activation**



Merchant Training and SOPs

- ◆ **Classroom training scheduled during week prior to “go live” date**
- ◆ **On-the-Job Training (OJT) available throughout “go live” week**
- ◆ **SOPs prepared with functional experts and reviewed by Fleet reps
... input from Navy/Marine Cash ships incorporated**
 - **Disbursing**
 - **Post Office**
 - **General Mess**
 - **Private Messes, e.g., Wardroom, Chief’s Mess**
 - **Ship’s Store**
 - **MWR**
 - **Systems Administrator**
- ◆ **SOPs are available on NAVSUP web site in Navy Logistics Library
as PUB 727 and on Treasury web site www.fms.treas.gov/navycash**



Navy Cash Training Fleet Driven Improvements

- ◆ NTSP N41-NTSP-K-40-0301 ... approved 9 Mar 2007... currently under revision
- ◆ Navy ILE Computer Based Training (CBT)
 - ◆ 20-hour interactive course for Disbursing Office personnel
 - ◆ Over 300 personnel have completed the course since inception (Aug 2008)
 - ◆ Access via NKO ... soon to be available on Afloat ILE via NIAPS
- ◆ NSCS BQC
 - ◆ 5-day course ... system knowledge and 'hands on' lab equipment applications
 - ◆ Enhanced functionality at new facility in Newport
 - ◆ Laptop and hand held device at all student workstations
 - ◆ Ability to simulate EOD/EOM actions (e.g., 'round trips') with JPMC
 - ◆ Addition of vending machines and ROM system interactions planned
- ◆ Navy Cash Functional Training
 - ◆ Delivered by system experts/trainers, L-3 and Fleet Support Groups (FSGs)
 - ◆ 1–2 days ... hands-on, up-to-date, tailored training for DISBO, ITs, and shipboard merchants
 - ◆ Conducted in Fleet concentration areas
- ◆ On-site job performance assist visits available from the FSGs



Cash Availability

- ◆ On board ship, transactions are cash-less
- ◆ Ashore, on leave or liberty — options:
 - ◆ Use mag strip debit feature at merchants instead of cash
 - ◆ Commercial ATMs in town
 - ◆ Cash out Navy/Marine Cash e-purse before leaving ship
 - ◆ Cash personal check before leaving ship
- ◆ Foreign currency — options:
 - ◆ Commercial ATMs in town ... provide best exchange rates
 - ◆ Husbanding agents arrange currency exchange on board
 - ◆ Cash out Navy/Marine Cash e-purse before leaving ship



Logistics Support

- ◆ Navy/Marine Cash hardware supported primarily through supply system via depot managed by support contractor
 - ◆ APL/AEL supported ... parent APL # 00044461CL applies
 - ◆ O COG managed items ... items have NICNs ... program office funded
 - ◆ OU (repairable) and OJ (consumable) ... 5G advice code for OU items (see Parts Exchange slide)
 - ◆ Some 7 and 9 COG items ... managed through DLA ... funded by ship's OPTAR (e.g., SAM chips, back-up tapes, cleaning cards, batteries)
- ◆ Ship provided ILS spares kit to meet allowance levels established by program office ... managed by Stock Control Division onboard
- ◆ Preventive maintenance established through NAVSEA ... under 3M system
 - ◆ Maintenance Index Page 6541/080-14 applies ... five MRCs
- ◆ ULSS (User's Logistics Support Summary) details technical requirements and logistic support options for the Navy Cash program



Barge Support

- ◆ Barge support is available for Navy Cash for maintenance overhauls — 42 barges have been pre-wired to accommodate transferring ship's Navy Cash system from ship to barge and back
- ◆ Options available at ship's choice:
 - ◆ Keep Navy Cash system fully operational on ship during overhaul, if feasible
 - ◆ Move server and kiosks to pre-wired barge at ship's expense
 - ◆ Use split pay and strip *only* during yard period — no chip
 - ◆ Shut down system and revert totally to cash during yard period — NEX can provide vending machines and cash collection with a percentage of profits going to ship's MWR
- ◆ Equipment Constraints:
 - ◆ One Navy Cash server onboard — ship's server
 - ◆ No “loaner” equipment available during yard periods
 - ◆ Multiple barges not normally supported — only possible if barges directly along side each other and both barges on ship's LAN



Navy Cash Customer Service

Navy Cash Customer Service Center (CSC)

**For Cardholders: 1 (866) 3NAVYCASH
1 (866) 362-8922**

Web Site: www.navycash.com

e-mail: navycash@ezpaymt.com

**For Disbursing Offices / Merchants: 1 (866) 6NAVYCASH
1 (866) 662-8922**

Web Site: www.navycashcenter.com

e-mail: navycashcenter@ezpaymt.com

**FAX: 1 (866) CHASE01
1 (866) 242-7301**



Navy Cash Points of Contact

Program Office

Program Manager

Mr. Dan Olson, SUP N414J, (717) 605-7579
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Operations Manager

Ms. Deb Danner, SUP N414B, (717) 605-xxxx
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Logistics/Maintenance Manager

Ms. Edie Johnston, SUP N414C, (717) 605-2771
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Training Manager

Mr. Derek Takara, SUP N414T, (717) 605-7033
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**Naval Supply Systems Command
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NEXCOM, Ship's Store, Fleet Assistance Teams

Mr. Gene Hoffman, Code A, (757) 502-7472
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Navy Cash Points of Contact

Waterfront Support — NAVSUP Fleet Logistics Centers (FLCs)

NAVSUP FLC San Diego

Disbursing, Fleet Support Group

Andy Yager, (619) 556-6493, DSN: 526

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PSC Romel Serencio, (619) 556-1671, DSN: 526

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Ship's Store, Fleet Assistance Team

SHCS Brett Lyons, (619) 556-5727, DSN: 526

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SHC Allan Lazar, (619) 556-5731, DSN: 526

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NAVSUP FLC Norfolk

Disbursing, Fleet Support Group

Hugh Chin, (757) 443-1189, DSN: 646

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PSC Paul Jioia, (757) 443-1451, DSN: 646

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Ship's Store, Fleet Assistance Team

SHCM Ken Carter, (757) 443-2522, DSN: 646

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SHC Horne, (757) 443-2522, DSN: 646

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NAVSUP FLC Yokosuka

Disbursing, Fleet Support Group

Joel Ignacio, +81 46 816 5106, DSN: (312) 243-5106

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Ship's Store, Fleet Assistance Team

SHCM Jesus Garcia, +81 46 816 7965, DSN: (312) 243-7965

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Navy Cash Points of Contact

Type Commander Support

SURFPAC

Disbursing

PSCM Johnny Lim, (619) 437-2265, DSN: 735
johnny.a.lim@navy.mil

Ship's Store

SHCS Hector Razo, (619) 437-3313, DSN: 735
hector.razo@navy.mil

SURFLANT

Disbursing

PSCS Phil Gervase, (757) 836-3174, DSN: 836
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Ship's Store

SHCM James Ellis, (757) 836-3172, DSN: 836
james.m.ellis5@navy.mil

AIRPAC

Disbursing

Noel Delos Santos, (619) 545-1035, DSN: 735
noel.delossantos1.ctr@navy.mil

Ship's Store

Dennis Perzyk, (757) 444-8220, DSN: 564
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AIRLANT

Disbursing / Ship's Store

Dennis Perzyk, (757) 444-8220, DSN: 564
dennis.perzyk@navy.mil



Navy Cash Ships LANTFLT

Norfolk

USS Anzio (CG 68)
 USS Arleigh Burke (DDG 51)
 USS Bainbridge (DDG 96)
 USS Barry (DDG 52)
 USS Bataan (LHD 5)
 USS Bulkeley (DDG 84)
 USS Carr (FFG 52)
 USS Cole (DDG 67)
 USS Donald Cook (DDG 75)
 USS Dwight D Eisenhower (CVN 69)
 USS Elrod (FFG 55)
 USS Enterprise (CVN 65)
 USS Forrest Sherman (DDG 98)
 USS George H W Bush (CVN 77)
 USS Gonzalez (DDG 66)
 USS Gravelly (DDG 107)

USS Harry S Truman (CVN 75)
 USS Iwo Jima (LHD 7)
 USS Jason Dunham (DDG 109)
 USS James E Williams (DDG 95)
 USS Kauffman (FFG 59)
 USS Kearsarge (LHD 3)
 USS Laboon (DDG 58)
 USS Leyte Gulf (CG 55)
 USS Mahan (DDG 72)
 USS Mason (DDG 87)
 USS Mesa Verde (LPD 19)
 USS McFaul (DDG 74)
 USS Mitscher (DDG 57)
 USS Monterey (CG 61)
 USS New York (LPD 21)

USS Nicholas (FFG 47)
 USS Nitze (DDG 94)
 USS Normandy (CG 60)
 USS Oscar Austin (DDG 79)
 USS Porter (DDG 78)
 USS Ramage (DDG 61)
 USS Ross (DDG 71)
 USS San Antonio (LPD 17)
 USS San Jacinto (CG 56)
 USS Stout (DDG 55)
 USS Theodore Roosevelt (CVN 71)
 USS Truxtun (DDG 103)
 USS Vella Gulf (CG 72)
 USS Wasp (LHD 1)
 USS Winston S Churchill (DDG 81)

Barges

(Norfolk / Mayport)

YRBM(L) 23	YRBM(L) 33	YRBM(L) 40	YRBM(L) 46	APL 45	APL 66
YRBM(L) 24	YRBM(L) 34	YRBM(L) 42	APL 29	APL 50	
YRBM(L) 27	YRBM(L) 35	YRBM(L) 43	APL 32	APL 58	
YRBM(L) 28	YRBM(L) 36	YRBM(L) 45	APL 42	APL 61	

Little Creek

USS Ashland (LSD 48)
 USS Carter Hall (LSD 50)
 USS Fort McHenry (LSD 43)
 USS Gunston Hall (LSD 44)
 USS Oak Hill (LSD 51)
 USS Whidbey Island (LSD 41)

Gaeta

USS Mount Whitney (LCC 20)

Mayport

USS Carney (DDG 64)	USS Hue City (CG 66)	USS Samuel B Roberts (FFG 58)
USS De Wert (FFG 45)	USS Klakring (FFG 42)	USS Simpson (FFG 56)
USS Farragut (DDG 99)	USS Philippine Sea (CG 58)	USS Taylor (FFG 50)
USS Gettysburg (CG 64)	USS Robert G Bradley (FFG 49)	USS The Sullivans (DDG 68)
USS Halyburton (FFG 40)	USS Roosevelt (DDG 80)	USS Underwood (FFG 36)
		USS Vicksburg (CG 69)

*A total of
 151 ships active
 as of 10 July 12
 42 barges installed*



Navy Cash Ships PACFLT

Forward Deployed

Yokosuka

USS Blue Ridge (LCC 19)
 USS Cowpens (CG 63)
 USS Curtis Wilbur (DDG 54)
 USS Fitzgerald (DDG 62)
 USS George Washington (CVN 73)
 USS John S McCain (DDG 56)
 USS Lassen (DDG 82)
 USS McCampbell (DDG 85)
 USS Mustin (DDG 89)
 USS Shiloh (CG 67)
 USS Stethem (DDG 63)

Barges

APL 40

Sasebo

USS Bonhomme Richard (LHD 6)
 USS Denver (LPD 9)
 USS Germantown (LSD 42)
 USS Tortuga (LSD 46)

Barges

APL 39

Everett

USS Abraham Lincoln (CVN 72)
 USS Ford (FFG 54)
 USS Ingraham (FFG 61)
 USS Momsen (DDG 92)
 USS Nimitz (CVN 68)
 USS Rodney M Davis (FFG 60)
 USS Shoup (DDG 86)

Kitsap - Bremerton

USS John C Stennis (CVN 74)
 USS Ronald Reagan (CVN 76)

Barges

YRBM(L) 30 APL 62
 YRBM(L) 34

Pearl Harbor

USS Chafee (DDG 90)
 USS Chosin (CG 65)
 USS Chung-Hoon (DDG 93)
 USS Crommelin (FFG 37)
 USS Hopper (DDG 70)
 USS Lake Erie (CG 70)
 PCU Michael Murphy (DDG 112)
 USS O'Kane (DDG 77)
 USS Paul Hamilton (DDG 60)
 USS Port Royal (CG 73)
 USS Reuben James (FFG 57)
 USS Russell (DDG 59)

Barges

YRBM(L) 32 YRBM(L) 52
 YRBM(L) 37

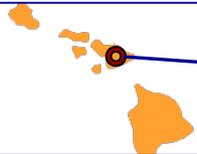
San Diego

USS Antietam (CG 54)
 USS Benfold (DDG 65)
 USS Boxer (LHD 4)
 USS Bunker Hill (CG 52)
 USS Cape St George (CG 71)
 USS Carl Vinson (CVN 70)
 USS Chancellorsville (CG 62)
 USS Comstock (LSD 45)
 USS Curts (FFG 38)
 USS Decatur (DDG 73)
 USS Dewey (DDG 105)
 USS Essex (LHD 2)
 USS Gary (FFG 51)
 USS Green Bay (LPD 20)
 USS Gridley (DDG 101)
 USS Halsey (DDG 97)
 USS Harpers Ferry (LSD 49)
 USS Higgins (DDG 76)
 USS Howard (DDG 83)
 USS John Paul Jones (DDG 53)
 USS Kidd (DDG 100)

USS Lake Champlain (CG 57)
 USS Makin Island (LHD 8)
 USS McCluskey (FFG 41)
 USS Milius (DDG 69)
 USS Mobile Bay (CG 53)
 USS New Orleans (LPD 18)
 USS Pearl Harbor (LSD 52)
 USS Peleliu (LHA 5)
 USS Pinckney (DDG 91)
 USS Preble (DDG 88)
 USS Princeton (CG 59)
 USS Rentz (FFG 46)
 USS Rushmore (LSD 47)
 USS Sampson (DDG 102)
 USS San Diego (LPD 22)
 USS Spruance (DDG 111)
 USS Sterett (DDG 104)
 USS Stockdale (DDG 106)
 USS Thach (FFG 43)
 USS Vandegrift (FFG 48)
 USS Wayne E Meyer (DDG 108)
 USS William P Lawrence (DDG 110)

Barges

YRBM(L) 20	YRBM(L) 39	YRBM(L) 55	APL 15
YRBM(L) 26	YRBM(L) 44	APL 2	APL 18
YRBM(L) 29	YRBM(L) 51	APL 4	APL 65
YRBM(L) 38			



Guam

USS Frank Cable (AS 40)

Diego Garcia

USS Emory S Land (AS 39)

Fifth Fleet

USS Ponce (AFSB(I) 15)

*A total of
 151 ships active
 as of 10 July 12
 42 barges installed*



Pre-Implementation Planning Session



Pre-Installation Checklist

Event	Timeline	Time Required	Ship Responsibilities	Navy Cash Team Responsibilities
Overview of Navy Cash Program	Four to six months prior to “go live” date	Executive Level 1–1½ hours Pre-Install Planning 1–2 hours	CO, XO, Command Master Chief, Wardroom, Chief’s Mess, and LPOs. Supply Department Officers, LCPOs, and LPOs, MWR Officer, and ADP/EMO attend. SUPPO ensures listing of POCs on ship is filled out and returned to JPMorgan Chase	NAVSUP and JPMorgan Chase (JPMC) coordinate schedule and provide briefings. NAVSUP leave copies of POD notes, FAQs, and other materials.
Vending Machine Survey	Three to six months prior to “go live” date	Five days	SUPPO and Sales Officer collect data and return completed form to NEXCOM Ship’s Store Office and Fleet Assistance Team. SUPPO and Sales Officer order and install new MDB-compliant vending machines as necessary	NEXCOM Ship’s Store Office and FAT forward data collection survey template to ship. NEXCOM review and determine if any machines are incompatible with Navy Cash and need to be replaced prior to “go live” date.
Alteration Installation Team (AIT) Pre-Brief and Site Survey	Three to four months prior to “go live” date	Three to five days	In accordance with AIT instruction. ADP Officer assigns IP addresses needed for Navy Cash server and devices	In accordance with AIT instruction. Titan will coordinate schedule with ship.
Chart of Accounts	Two to three months prior to “go live” date	Five days	SUPPO and DISBO collect data and return completed form to JPMC	JPMC forward data collection template to ship for bank account / line of accounting data for Navy Cash merchants.



Pre-Installation Checklist

Event	Timeline	Time Required	Ship Responsibilities	Navy Cash Team Responsibilities
Enrollment	6 weeks prior to "go live" date	2 weeks	30 days before enrollment SUPPO runs selected POD notes. Disbursing Office distributes forms to Division Pay Reps. Pay Reps work with each person to verify data on form, pen and ink any corrections, fill in any missing data, and sign form. Pay Reps return forms to Disbursing Office as they are completed.	NAVSUP/DFAS develop enrollment database and forward to Fleet Support Group (FSG) 3 weeks before orientation. FSG print and deliver enrollment forms 2 weeks before orientation. FSG collect forms from Disbo, update database with corrected info, and forward database to JPMC.
Orientation Training	30 days prior to "go live" date	3-5 days depending on crew size. Session runs about 1½ hrs. At least 3 sessions per day	2 weeks prior to training, SUPPO addresses orientation training reqmts at Planning Board for Training. Supply Department schedules classroom space for training, e.g., Mess Decks. Department Heads, Division Officers, LPOs ensure entire crew attends.	JPMC provide training materials. Titan coordinate with SUPPO to schedule training and conduct training sessions. FSG attend orientation training to assist in answering any questions from crew.
Secure Access to Navy Cash Disbursing Web Site	30 days prior to "go live" date	1 day	DISBO provides full name, SSN, date of birth, and date joined Navy for each person who will access web site, e.g., DISBO, Leading PS, Sales Officer. DISBO ensures registration forms are filled out for each person.	JPMC issue SecurID random number generator. Number and login data allow secure access to site. Provide registration forms to be filled out. Provide training on accessing and using web site.



Pre-Installation Checklist

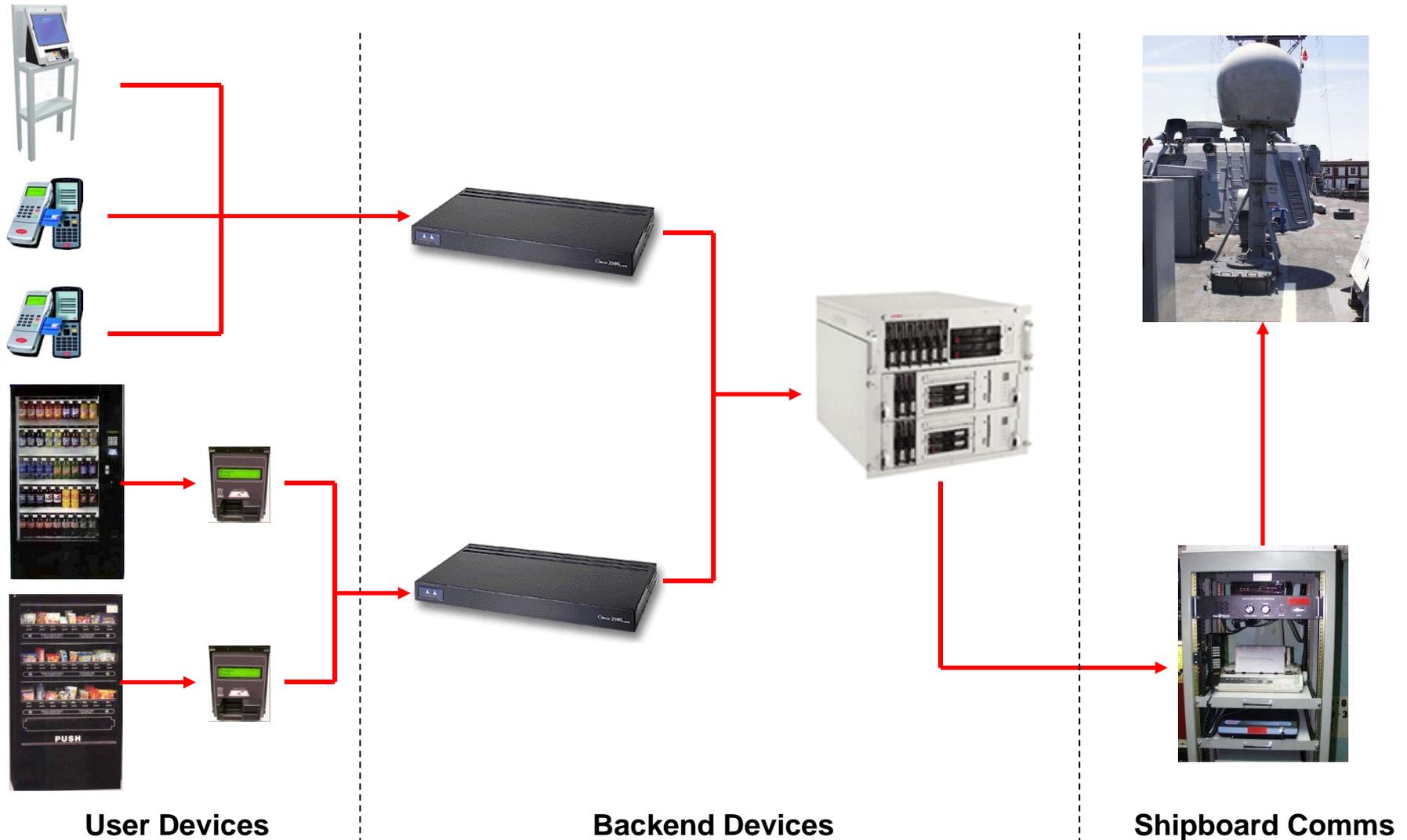
Event	Timeline	Time Required	Ship Responsibilities	Navy Cash Team Responsibilities
Transition ATMs-at-Sea to Navy Cash Remove ATMs	30 days prior to removal of ATMs	10-15 days	30 days before removing ATMs, SUPPO submits POD note laying out plan for transition and encouraging members to close out ATM accounts. Alt 1: Shut down ATMs and stop SPO. Restart SPO after "go live". Alt 2: Leave ATM server running. Pay SPO from Disbursing Office.	FSG provide support in closing out accounts and shutting down ATMs-at-Sea system as needed. Shipyard remove ATMs-at-Sea system as part of availability prior to start of Navy Cash install. NAVSUP notify DFAS date for first SPO payroll to Navy Cash.
Functional Training	One week prior to "go live" date	5 days total: 2 for Disbo, PSs, Sales Officer, SHs. 1 for ITs/ETs. 3-4 half-day sessions for "merchants"	2 weeks prior to training, SUPPO addresses functional training requirements at the Planning Board for Training. Department Heads, Division Officers, LCPOs, LPOs ensure appropriate people attend, e.g., Post Office, MWR, Wardroom, Chief's Mess, Food Service, ADP.	Titan coordinate with SUPPO to schedule training. Titan coordinate with NAVSUP, FSG, or NEXCOM FAT to sched classroom spaces off the ship. Titan conduct training sessions.
Software Installation and Production Testing	One week prior to "go live" date	3-5 days	SUPPO arranges for desk space for 2-3 people where Navy Cash server installed. SUPPO and DISBO arrange for access to "retail" spaces, e.g., Ship's Store, MWR, Post Office. ADP Officer arranges for IT / ET support for LAN and communications off ship for SOVT.	Navy Cash team to provide script for production readiness testing (SOVT).



Pre-Installation Checklist

Event	Timeline	Time Required	Ship Responsibilities	Navy Cash Team Responsibilities
Distribute Navy Cash Cards to the Crew	2-3 days prior to "go live" date	2-3 days	Disbursing Office sort cards and PIN envelopes by division and pass to Division Pay Representatives to distribute to crew.	JPMC use enrollment database to initiate card production. Cards delivered via FEDEX to LSR at LSC (since FEDEX can't deliver to FPO) and sent to ship.
On the Job Training	"Go live" date plus 2-3 days	3-4 days	SUPPO coordinates with various retail outlets to ensure OJT trainers know hours of operation and retail operators are available and expect Navy Cash trainers.	NAVSUP, FSG, NEXCOM FAT, JPMC, and Titan coordinate who will be available for OJT.
AIT Out-Brief and Installation Sign Off	1-3 days after "go live" date	3 days	In accordance with AIT instruction.	IAW AIT instruction. Titan coordinates schedule with ship.

Navy Cash System Diagram





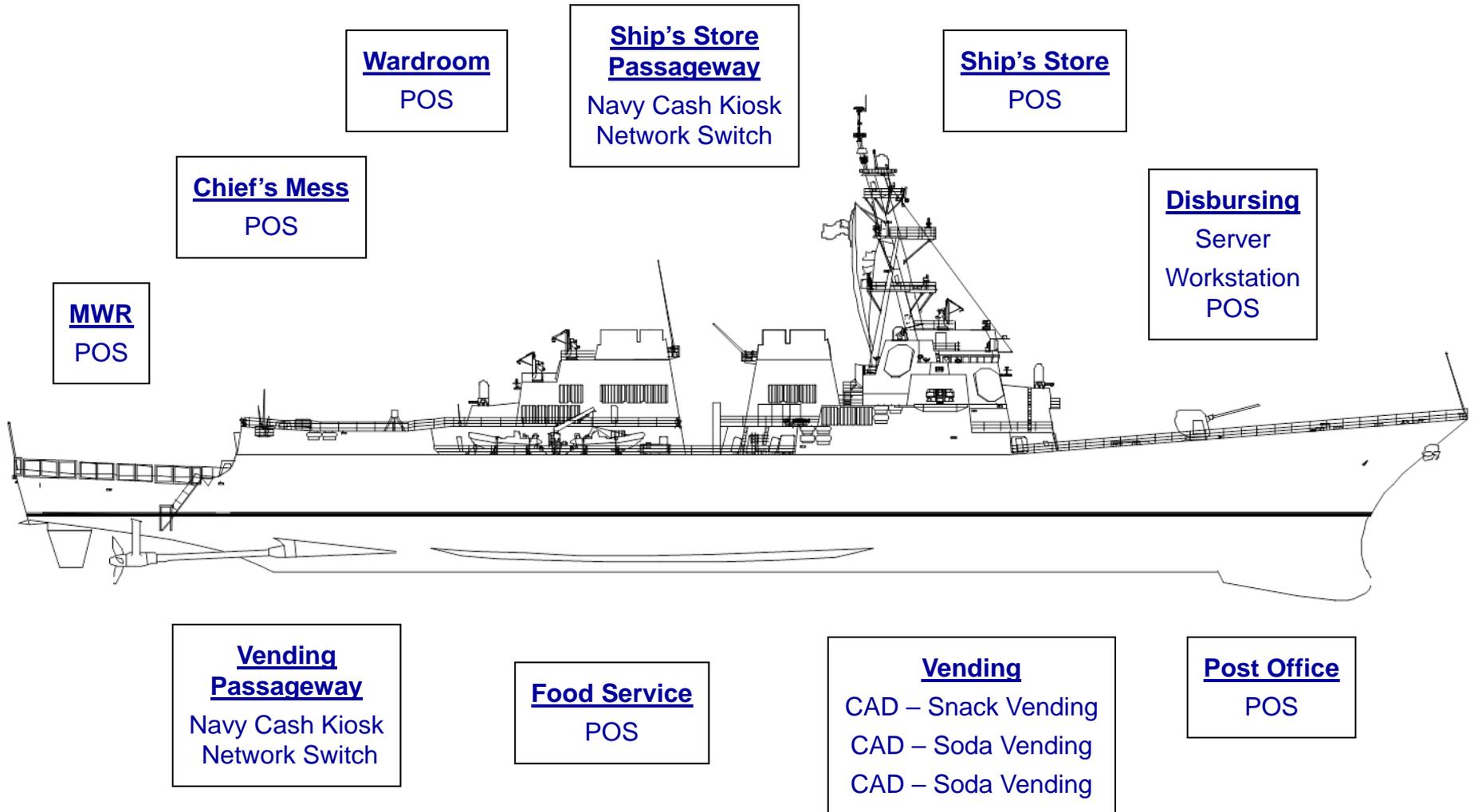
Standard Shipboard Configuration

CG/DDG/FFG

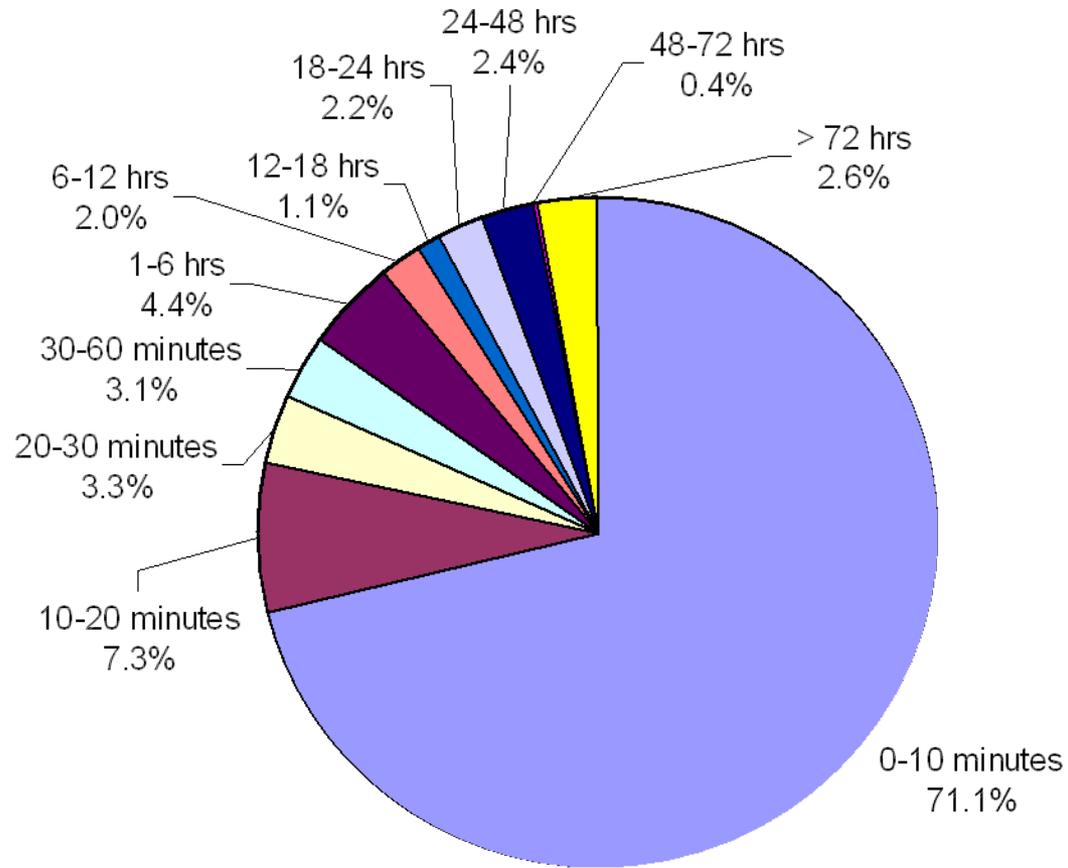
- | | |
|-------------------------------------|---|
| 1 Server - CL380 Cluster | IT Spaces |
| 1 Client Workstation | Disbursing Office |
| 1 Client Laptop | Post Office |
| 2 Navy Cash Kiosks | Mess Decks |
| | P-Way near Disbursing |
| 1 Point of Sale (POS) Device | Disbursing Office |
| 1 POS Device | Ship's Store |
| 1 POS Device | Post Office |
| 4 POS Devices | MWR, Wardroom, Chief's Mess,
Food Service Office |
| 6 Card Access Devices (CADs) | Vending Machines |
| 2 Network Switches | With Kiosks, Vending Machines |
| 10 LAN Drops | |
| Spare POSs and CADs | |

CG / DDG / FFG

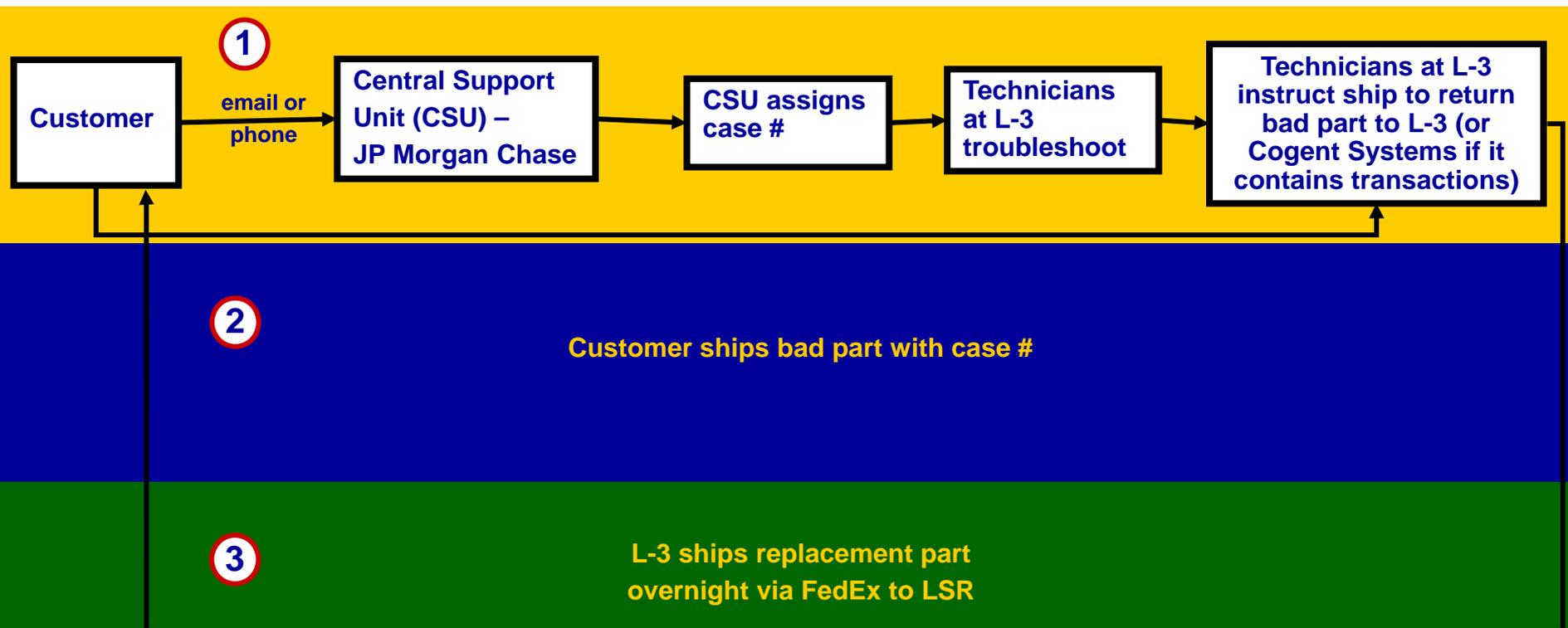
Generic System Configuration



- ◆ **85% of attempted transmissions completed in less than one hour**
- ◆ **15% of attempted transmissions delayed an hour or more, with 2.6% delayed over 72 hours**
- ◆ **100% success rate — No instances of lost or irretrievable data, and zero dollar value of data lost**
- ◆ **Store-and-forward, batch-processing effective means to process transactions with less than optimal communications**
- ◆ **With communications not available 15% of time, online transaction processing which requires full-time comms not practical given current comm capabilities in fleet**



As Is Process





Logistics Support

- ◆ **Navy/Marine Cash will be implemented as a standard SHIPALT across all ships in a class**
- ◆ **Navy/Marine Cash will be accomplished primarily as an AIT alteration with the equipment provided by the contractor as a part of the installation**
- ◆ **The AIT contractor, L-3 Communications, is well-versed in AIT requirements and in coordinating with SUPSHIP, RMMCO, Port Engineer, etc.**
- ◆ **The appropriate planning yards are preparing the SHIPALT packages in coordination with AIT contractor**
- ◆ **AIT installations will be scheduled through the Fleet planning conferences**



Logistics Support

- ◆ **An Integrated Logistics Support Plan is under development**
 - ◆ **NAVSUP worked with NAVICP-M and the NAVSEA Logistics Center to develop Allowance Parts Lists (APLs) for the Navy Cash Financial System**
 - ◆ **ILS Certification for CG, DDG, FFG, LHD, LPD, and LSD**
 - ◆ **NAVSUP registered technical manuals and obtained Tech Manual Identification Numbers (TMINs) from NAVSEA**
 - ◆ **AIT contractor reports installed configuration change through CDMD-OA**
- ◆ **A Navy Training Systems Plan (N41-NTSP-K-40-0301) was approved and signed by N41 March 2007**
- ◆ **Training is provided pre-installation, during installation, and post-installation primarily by the contractor**



Back-Up Slides



Standard Shipboard Configurations

Small	Medium	Basic Large	Enhanced Large		
1	1	1	1	Server - CL380 Cluster	IT Spaces
1	1	2	2	Client Workstations	Disbursing Office, Sales Office
1	1	3	3	Client Laptops	Cashier's Cage, Post Office
2	3	4	5	Navy Cash Kiosks	Mess Decks P-Way Disbursing, Ship's Store
1	1	3	3	Point of Sale Devices	Disbursing Office
1	1	3	5	POS Devices	Ship's Store, Sales Office
1	1	3	3	POS Devices	Post Office
4	4	5	5	POS Devices	MWR, Wardroom, Chiefs Mess, Galley Office, Food Service Office
6	10	16	32	Card Access Devices	Vending Machines
2	3	4	5	Network Switches	With Kiosks, Vending
10	11	17	19	LAN Drops	
				Spare POSs, Network Switch, and CADs	



Standard Shipboard Configuration

CV/CVN

- | | |
|---|--|
| 1 Server - CL380 Cluster | IT Spaces |
| 2 Client Workstations | Disbursing Office, Sales Office |
| 3 Client Laptops | Cashier's Cage, Post Office |
| 5 Navy Cash Kiosks | Mess Decks |
| | P-Way near Disbursing, Ship's Store |
| 3 Point of Sale (POS) Devices | Disbursing Office |
| 5 POS Devices | Ship's Store, Sales Office |
| 3 POS Devices | Post Office |
| 5 POS Devices | MWR, Wardroom, Chief's Mess,
Galley Office, Food Service Office |
| 32 Card Access Devices (CADs) | Vending Machines |
| 5 Network Switches | With Kiosks, Vending Machines |
| 19 LAN Drops | |
| Spare POSs, Network Switch, and CADs | |



Standard Shipboard Configuration

LPD/LSD/LCC

- | | |
|--------------------------------------|---|
| 1 Server - CL380 Cluster | IT Spaces |
| 1 Client Workstation | Disbursing Office |
| 1 Client Laptop | Post Office |
| 3 Navy Cash Kiosks | Mess Decks |
| 1 Point of Sale (POS) Device | P-Way near Disbursing, Ship's Store |
| 1 POS Device | Disbursing Office |
| 1 POS Device | Ship's Store |
| 4 POS Devices | Post Office |
| 10 Card Access Devices (CADs) | MWR, Wardroom, Chief's Mess,
Food Service Office |
| 3 Network Switches | Vending Machines |
| 11 LAN Drops | With Kiosks, Vending Machines |
| Spare POSs and CADs | |



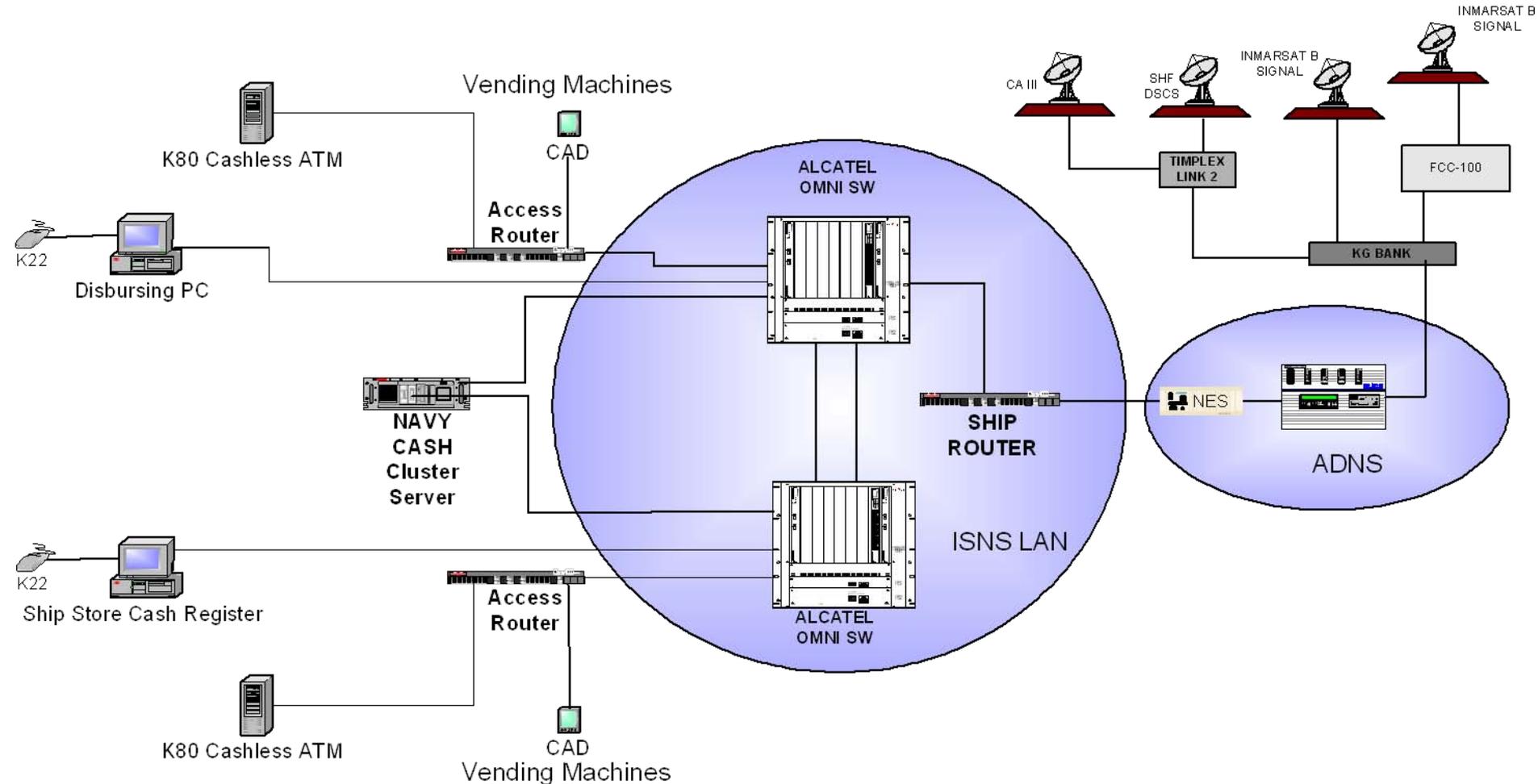
Standard Shipboard Configuration

LHA/LHD

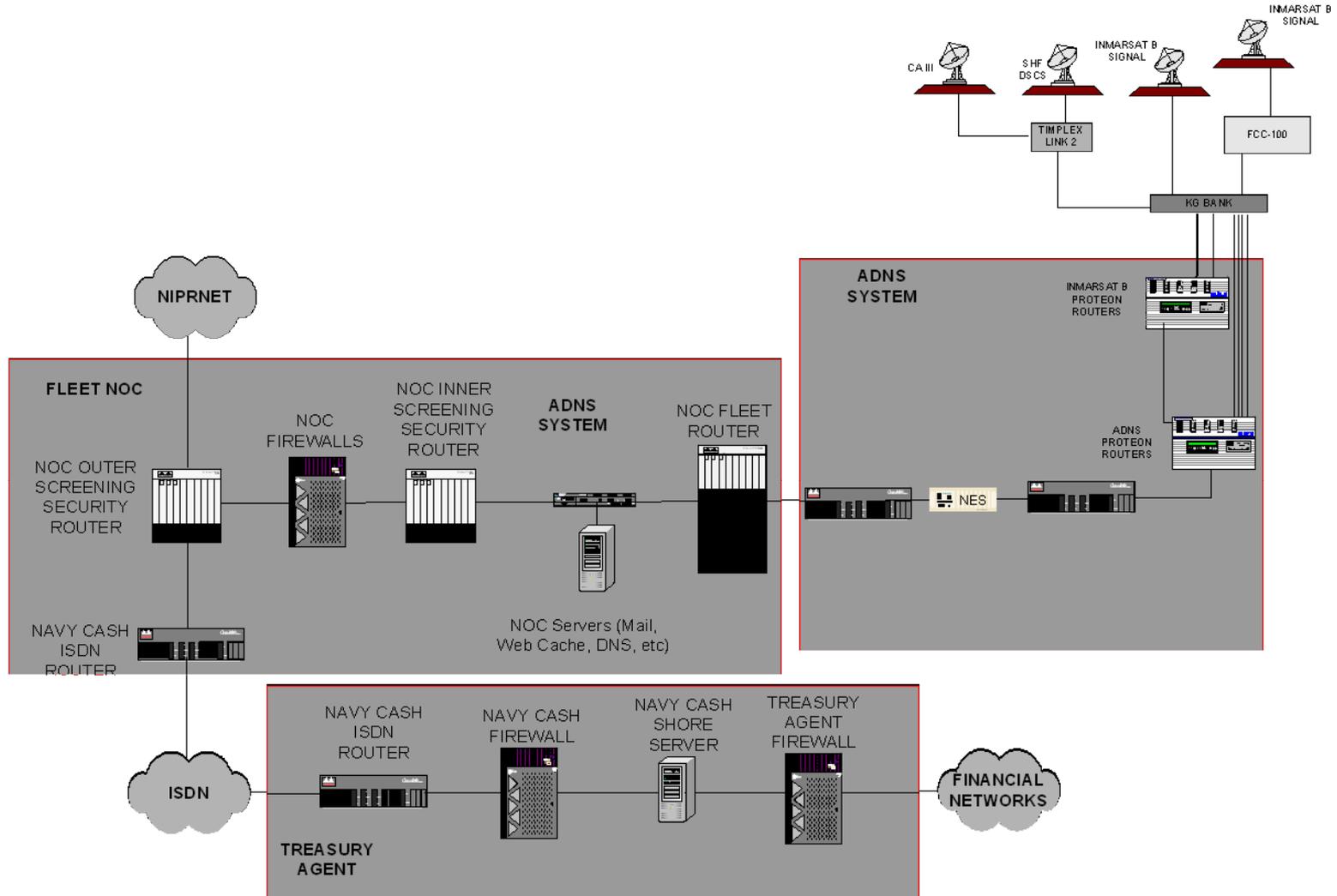
1	Server - CL380 Cluster	IT Spaces
2	Client Workstations	Disbursing Office, Sales Office
3	Client Laptops	Cashier's Cage, Post Office, Troop Disbursing
4	Navy Cash Kiosks	P-Way near Disbursing, Ship's Store, Troop Training Area
3	Point of Sale (POS) Devices	Disbursing Office, Troop Disbursing
3	POS Devices	Ship's Store, Sales Office
3	POS Devices	Post Office
5	POS Devices	MWR, Wardroom, Chief's Mess, Galley Office, Food Service Office
16	Card Access Devices (CADs)	Vending Machines
4	Network Switches	With Kiosks, Vending Machines
17	LAN Drops	
	Spare POSs, Network Switch, and CADs	



Navy/Marine Cash Shipboard Architecture



Navy/Marine Cash Ashore Architecture





How Does Navy/Marine Cash Work?

