



**Program Executive Office
Command, Control, Communications,
Computers and Intelligence (PEO C4I)**

**Communications Program Office (PMW/A 170)
Commercial Broadband Satellite Program (CBSP)**

ISCe Conference

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CBSP Small Ship Variant (SSV) onboard MCM





Program Description

CBSP



- **Mission Statement:**

- CBSP replaces Inmarsat (PCs) and Inmarsat B HSD (MCMs, DDGs, CGs) and WSC-8 (Large Decks) as the Navy's COMSATCOM program of record. The associated architectures are designed to significantly increase throughput of data to increase SATCOM reliability by providing redundancy for MILSATCOM.

- **Requirement:**

- ~230 ships ranging from Patrol Craft to Aircraft Carriers

- **Description:**

- Variants for Small Ships (MCM and PC), Unit Level Ships (CG, DDG, FFG, LCS, LPD-4, and LSD) and Force Level Ships (AS, CVN, LCC, LHA, LHD, LPD-17, and T-AH)
- Commercial SATCOM includes C, Ku, and X





CBSP Requirements & Acquisition Solution



CBSP Requirements

- **Terminal Operational Availability (Ao):** 97% Threshold / 99% Objective
- **End to end Availability:** 97%
- **Coverage:** 95% between 65° latitudes
- **Capacity:** Table on right

Throughput KPPs	Threshold	Objective
Tier 1 (FFGs, MCMs, PCs and MSC w/ MILDETs)	.881 Mbps	3.36 Mbps
Tier 2 (CVNs, LHAs, LPD-17s and LHDs)	21.4 Mbps	103 Mbps
Tier 3 (DDGs, CGs, LSDs, and LPDs)	3.6 Mbps	16.0 Mbps

Acquisition Solution

- PEO C4I will coordinate with Defense Information Systems Agency (DISA) to lease Commercial Satellite Services.
- FFGs and MSC ships with MILDETs will receive the same terminal as CGs and DDGs (ULV).
- SSV Contract awarded 16Oct07
- FLV contract awarded 23May08
- Anticipate award of ULV in Jun 08

<u>Ship Class</u>	<u>Terminal Variant</u>	<u>Freq band</u>
PC, MCM	SSV	Ku
CVN, LHA, LHD, LCC, LPD-17	FLV	C/Ku
FFG, LPD-4, LSD, CG, DDG, MSC w/ MILDETs	ULV	X/Ku

SSV - Small Ship Variant; ULV - Unit Level Variant; FLV - Force Level Variant



Small Ship Variant (SSV) Terminal Status



- 30 SSV terminals funded: PC (13), MCM (14), Shore (3)
 - Unfunded: (0)
 - Ku band: .881 Mbps Threshold / 3.36 Mbps Objective
-
- Contract awarded 16 Oct '07
 - 90 day delivery required for first T & E terminals
 - 90 delivery required for subsequent orders
 - First terminals delivered 14 Jan, '08
 - First installation on USS CHAMPION (MCM 4) commenced 10 Mar '08
 - First production terminals 90 days after DT/QRA Assessment report and MDA FRP approval
 - Installations scheduled to commence Sept '08 with install on USS HURRICANE (PC 3)





Unit Level Variant (ULV) *Terminal Status*



- 55 ULV terminals funded: FFG (30), LCS (0), LPD-4 (0), LSD (2), CG (5), DDG (15), MSC (0), Shore (3)
 - Unfunded: (113) LCS (3), LPD-4 (3), LSD (10), CG (20), DDG (47), MSC (30)
 - X/Ku band: 3.6 Mbps Threshold / 16 Mbps Objective
-
- Contract award scheduled early June '08
 - 180 day delivery required for first T & E terminals
 - 90 delivery required for subsequent orders
 - First terminal delivery estimated Dec '08
 - Install/DT/QRA scheduled Jan – Mar '09
 - First production terminals 90 days after DT/QRA Assessment report and MDA FRP approval
 - Installations scheduled to commence Jun '09



Force Level Variant (FLV) *Terminal Status*



- 38 FLV terminals funded: CVN (10), LCC (2), LHA (2), LHD-1 (8) LPD-17 (9), T-AH (2), AS (2), Shore (3)
 - Unfunded: (0)
 - C/Ku; 21.4 Mbps threshold, 103 Mbps Objective
-
- Contract awarded 23 May '08
 - 270 day delivery required for first T & E terminals
 - 90 delivery required for subsequent orders
 - First terminal delivery estimated ~23 Feb '09
 - Install/DT/QRA scheduled Mar – May '09
 - First production terminals 90 days after DT/QRA Assessment report and MDA FRP approval
 - Installations scheduled to commence ~ Sep '09



Space Segment & Terrestrial Connectivity

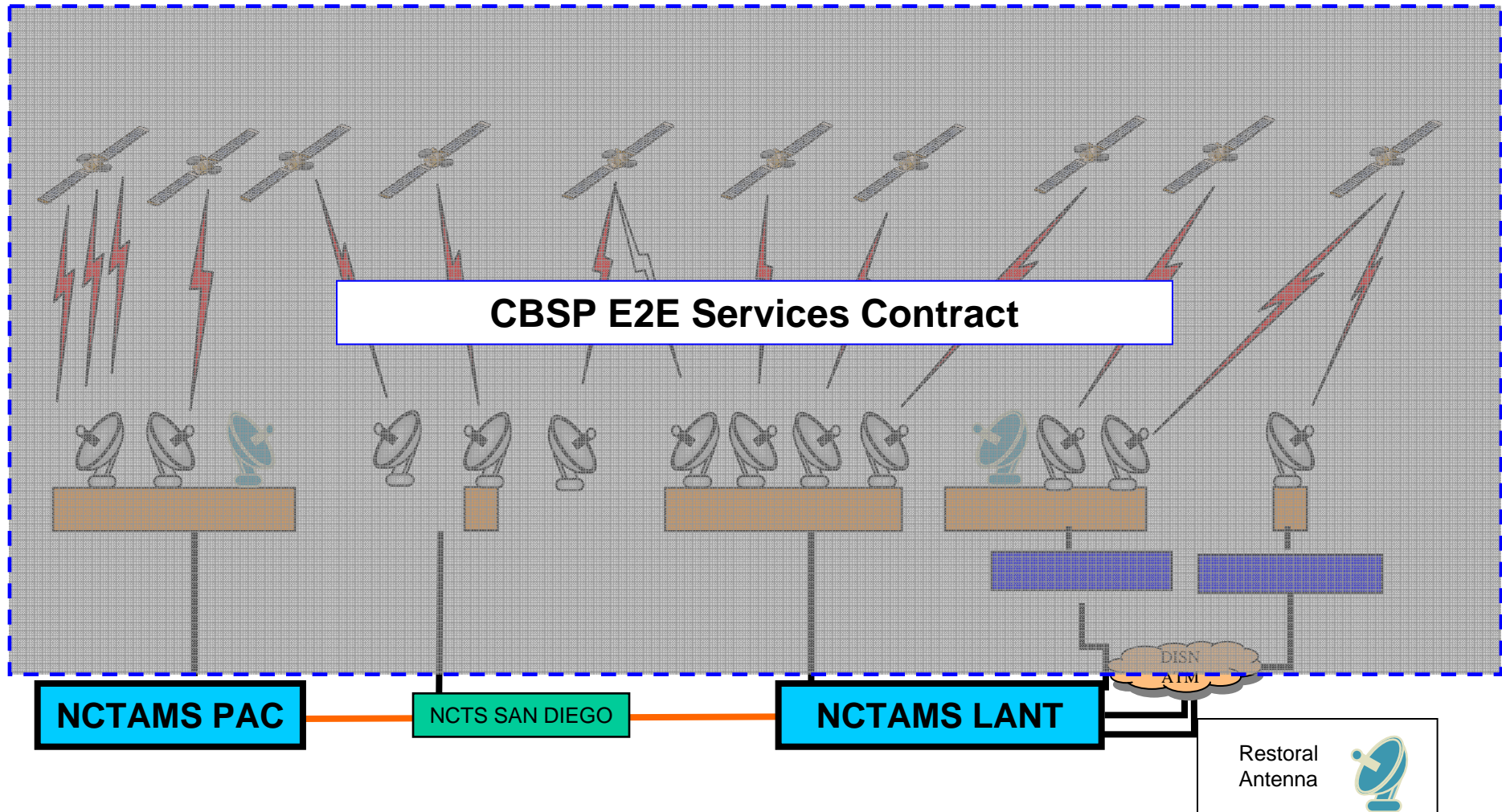
Contract Status



- CWSP and Inmarsat Space & Terrestrial Connectivity Contracts and Task Orders are in place and will continue while CBSP contracts negotiated
-
- PEO C4I is coordinating with Defense Information Systems Agency (DISA) to lease Commercial Satellite Services
 - Draft Statement of Objectives posted by DISA 7 Mar '08
 - Formal Request for Proposal (RFP) expected 4QFY08



CBSP End to End Services Architecture – to be Awarded

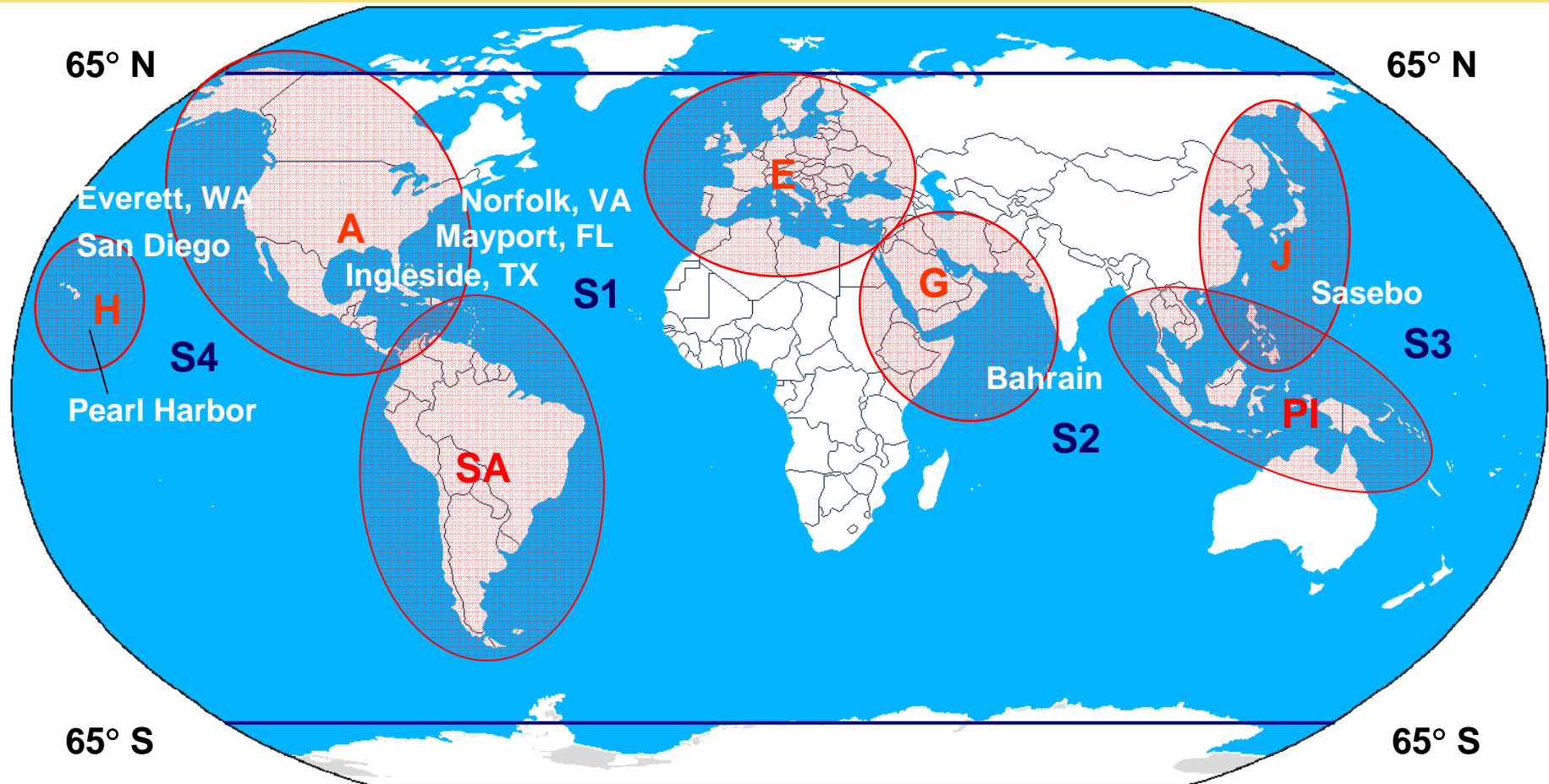


- CBSP Lease strategy includes a requirement for vendors to propose everything in the box to be provided on a performance-based contract, with CFE multiplexers at the Navy PoP as the demarcation point.



CBSP Regions & Notional Coverage

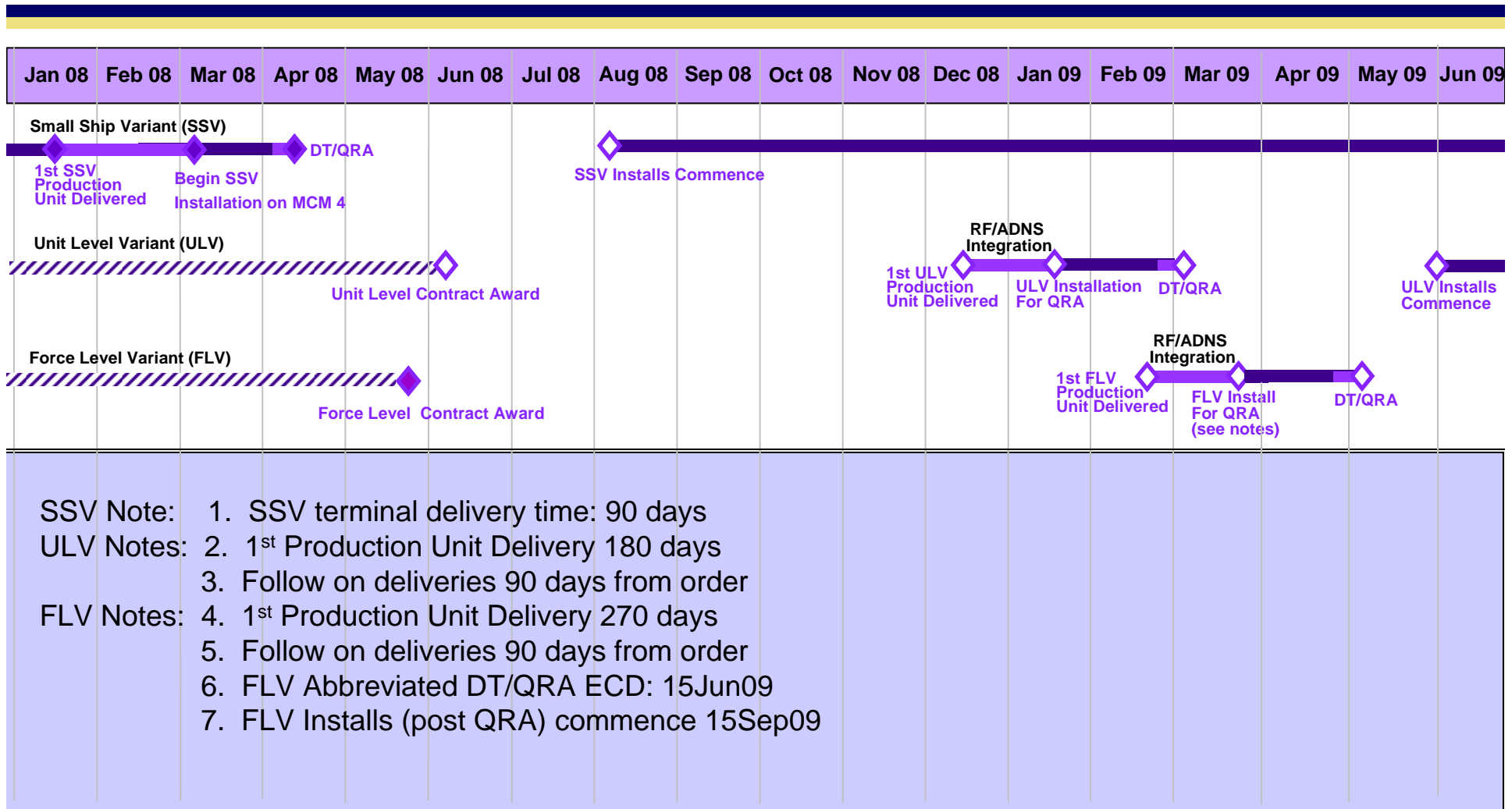
(CBSP Homeports & FDNF locations identified)



A – North America **E** – Europe & Med **G** – Middle East **H** – Hawaii **J** - South East Asia
SA - South America **PI** - Philippine Sea **S** – Blue water ocean



CBSP Schedule



Ver: 1Jun08



Closing



- CBSP remains on a very aggressive schedule to procure and field terminals as well as to implement a worldwide architecture to support the Fleet
- PEO C4I PMW/A 170 is looking forward to teaming with Industry to meet our schedule and performance requirements within cost.

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QUESTIONS?