

JIOC Segmented Architecture

Status & Way Ahead



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The overall classification of this briefing is
UNCLASSIFIED



Agenda

- JIOC EXORD
- JSAT goals & objectives
- Recent highlights
- JIOC As-Is IT Baseline
- Developing To-Be IT Baseline
- Proposed FY12 IPOM submission
- Way ahead



JIOC EXORD - DIA Responsibilities:

- “Advocate...for **JIOC capabilities in programmatic, policy and planning...forums.**”
- “Provide comprehensive IT infrastructure support to Combatant Commands...and serve as the **primary enabler for horizontal integration and inter-command IT coordination.**”
- “Develop a **systems architecture plan**...consistent with DoD and the ODNI Information Sharing Environment Initiative.”
- “Facilitate access to CSA databases...and serve as the DoD conduit for interagency IT connectivity and interoperability.”
- “Facilitate [where possible] information and/or data access for allies and/or coalition partners.”
- “Assess [annually] success of information sharing between JIOCs, CSAs, National Intelligence Agencies, Reserve components...and provide recommendations and/or COA...to SECDEF or designated representatives and DNI for action.”

- JIOC EXORD Section I, Paragraph 1



Goals & Objectives

- Enable the JIOCs to meet their mission imperatives
 - Develop and execute an enterprise IT plan
 - Align technologies and capabilities
- Establish a baseline enterprise architecture for the JIOCs
- Align technologies to the OUSG-defined capability gaps
- Provide a foundation to justify and prioritize funding to eliminate JIOC capability gaps

Fulfilling JIOC EXORD mandates

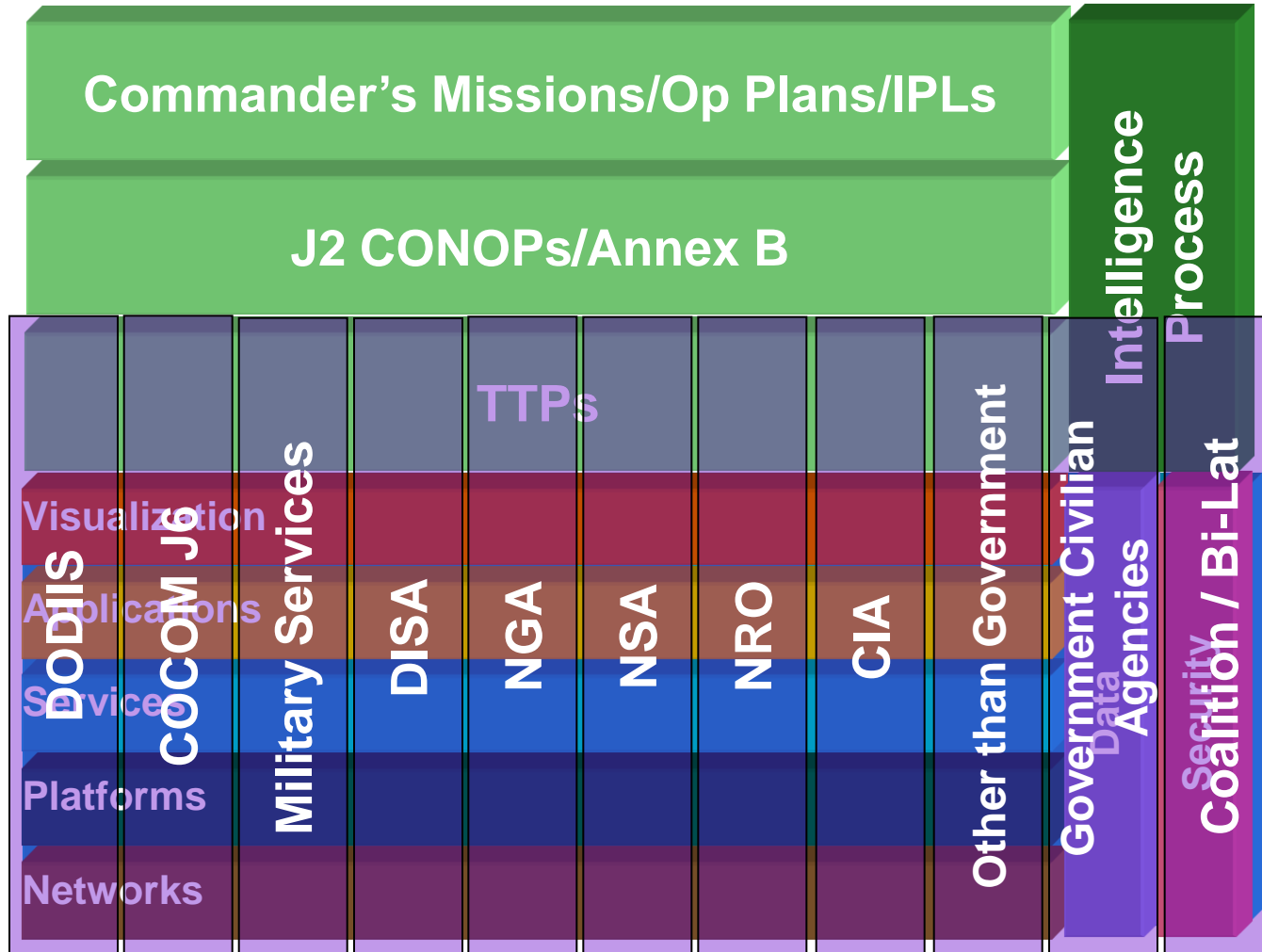


Recent Highlights: Results

- Documented JIOC Enterprise Architecture (Core)
 - COCOM missions, JIOC activities and As-Is IT baseline
 - DODAF products & matrices
 - Enterprise & theater views
- Framed To-Be architecture
 - Capabilities-based
- Developed IPOM proposal (JIOC IT)
 - Developed use cases against capability gaps
 - Performed DOTMLPF analysis on capability gaps
 - Recommended way ahead for FY12 IPOM
- Delivered formal report
 - All deliverables included in Appendix

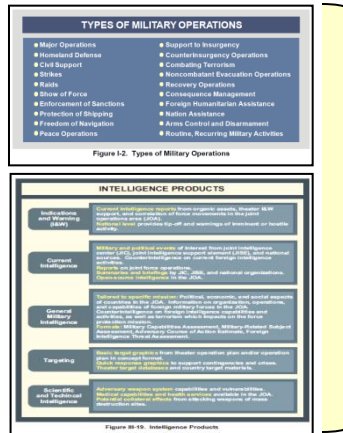
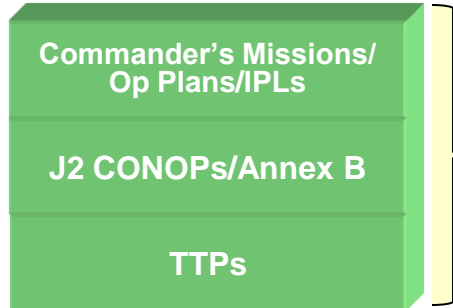


JIOC Enterprise Architecture





Achieving Mission Success through Capabilities



Supports

JIOC SEGMENTED ENTERPRISE ARCHITECTURE CAPABILITY VISION (CV-1)			
Major Capabilities	Goals	Outcomes	Benefits
Fuse Intel, Operations, and Plans	Improve integration of intelligence into military operations and planning	Improved situational awareness	Greater COCOM integration
	Improve speed to develop and integrate intelligence into plans for all types of military operations	Adaptive Intelligence Planning	Enhanced decision making
	Increase timeliness and accuracy of targeting intelligence for all types of military operations (non-kinetic to nuclear)	Achieved Commander's objectives	Enhanced decision making
Synchronize Military and National Intelligence	Full (100%) visibility of enterprise wide (National, Theater, and Service) ISR	Improved C2 of ISR operations	Improved decision making and ISR synchronization
Incorporate Multi-National and Non-traditional Partners/Partners	Increase integration of multi-national partners within JIOC operations.	Improved collaboration and intelligence sharing	Combined intelligence reporting with partner nation collaboration
Optimize Horizontal Integration	Reduce disparate, non-integrated systems and data across multiple domains and intelligence disciplines.	Improved cross domain data discovery, access and sharing	Reliable and accurate all-source and multi-discipline intelligence for decision making process
	Improve all-source fusion of intelligence data.	Improved comprehensive COP and predictive analysis	All available processed intelligence is integrated, evaluated, analyzed, interpreted, and fused
Leverage Interagency	Increase synchronous and asynchronous communication and information sharing, collaborative product development, voice, video, and text services with Services, interagency, government, and non-government partners.	Improved collaboration and intelligence sharing	Integrated information and reporting and coordinated tasking of intelligence assets

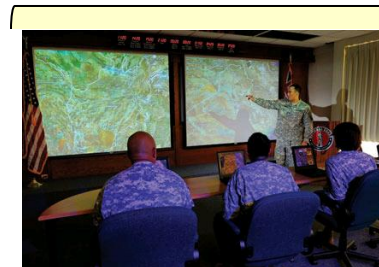
Capabilities (CV-1)

Achieves

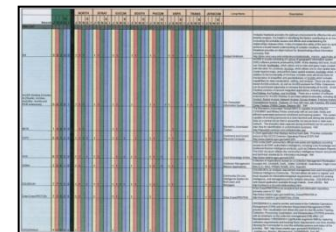


Activities (OV-5a)

Performs



COCOM Personnel



IT Enablers

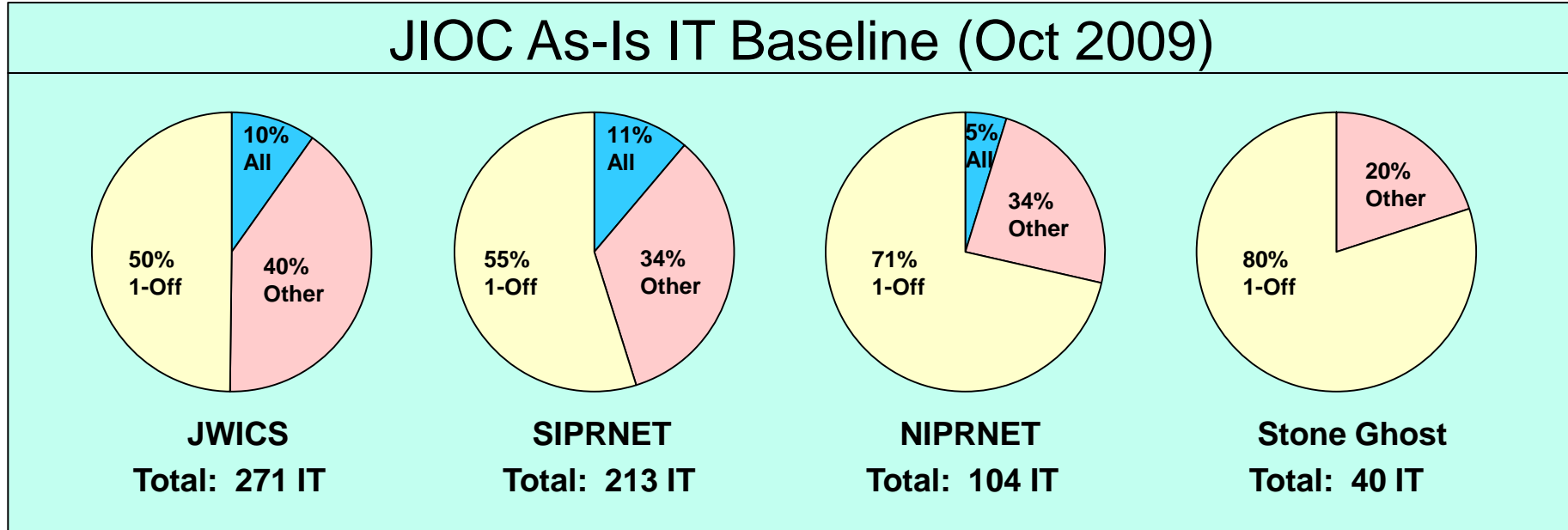
- COCOM Missions, OPLANS, CONPLANS and TTPs are linked to JP 2-0 and 3-0
- COCOM Capabilities are needed to produce intel products and achieve missions
- COCOM Activities are performed by COCOM Personnel and IT Enablers



As-Is IT Baseline Statistics

JIOC Enterprise Architecture:
“People, Processes, Intel Systems”

Legend
All – IT used at every JIOC
Other – IT used by 3-7 JIOCs
1-Off – Used by 1 or 2 JIOCs



305 IT enablers; more than 1/3 are one-offs; only 10% used by all JIOCs



JIOCEUR IT Enabler Breakdown (and example)

- **Baseline by Intel Cycle**
(pg 7 of JIOCEUR Application List)
 - 19 for Planning and Direction
 - 7 for Collection
 - 4 for Processing and Exploitation
 - 57 for Analysis and Production
 - 62 for Dissemination and Integration
 - 14 for Evaluation and Feedback
 - 48 for General Purpose or Infrastructure
- **Baseline Enablers used by all JIOCs**
(pg 8 of JIOCEUR Application List)
 - 29 on JWICS
 - 25 on SIPR
 - 6 on NIPR
- **JIOCEUR Enablers included in Proposed Baseline** (pg 17 of JIOCEUR Application List)
 - 92 out of 138 Proposed Enablers on JWICS
 - 83 out of 99 Proposed Enablers on SIPR
 - 26 out of 33 Proposed Enablers on NIPR
 - 6 out of 10 Proposed Enablers on StoneGhost
- **Proposed Baseline Not used by JIOCEUR**
(Pg 20 of JIOCEUR Application List)
 - 46 out of 138 Proposed Enablers on JWICS
 - 16 out of 99 Proposed Enablers on SIPR
 - 7 out of 33 Proposed Enablers on NIPR
 - 4 out of 10 Proposed Enablers on StoneGhost
- **JIOCEUR One-Offs** (pg 22 of JIOCEUR Application List)
 - 27 out of 133 One-Off Enablers on JWICS
 - 16 out of 114 One-Off Enablers on SIPR
 - 3 out of 71 One-Off Enablers on NIPR
 - 9 out of 30 Proposed Enablers on StoneGhost



Prioritized JIOC Capability Gaps

	JFCOM	AFRICOM	EUCOM	TRANSKOM	STRATCOM	SOUTHCOM	SOCOM	PACOM	CENTCOM	NORTHCOM	USFK	Average	Final Rank
Improved Fusion of Intelligence Data	3	5	3	2	5	1	1	1	1	1	1	2.18	1
Cross Domain Data Discovery, Access, and Sharing	2	4	2	3	4	2	2	3	3	3	2	2.73	2
Intelligence Architecture Planning Support	4	3	1	1	3	3	10	2	2	2	5	3.27	3
C2 of ISR	1	6	4	10	7	6	5	7	7	7	4	5.82	4
Adaptive Intelligence Planning	9	9	8	7	9	4	4	5	5	5	6	6.45	5
Integrated Targeting Intelligence	8	7	10	9	6	9	8	4	4	4	3	6.55	6
Intel Sharing with Non-Traditional Partners	6	1	5	5	10	5	6	9	9	9	7	6.55	7
Effective Knowledge Management	10	10	7	4	2	11	3	6	6	6	9	6.73	8
Intel Support to Disadvantage/Disconnected Users	5	2	6	8	11	7	7	10	10	10	11	7.91	9
JIOC IT Program Management and Oversight	11	8	11	11	1	10	11	8	8	8	10	8.82	10
Integrated CI and HUMINT Capabilities	7	11	9	6	8	8	9	11	11	11	8	9.00	11



FY12 Budget Initiative Proposal

- Intelligence Fusion Core – 5 focus areas:
 - Improve data fusion
 - Establish architecture / knowledge management cells
 - Establish cross-domain centers of excellence
 - Enhance collection management tools
 - Improve targeting systems interoperability

Based on capability needs and OUSG prioritization



Alignment with OUSG Gaps

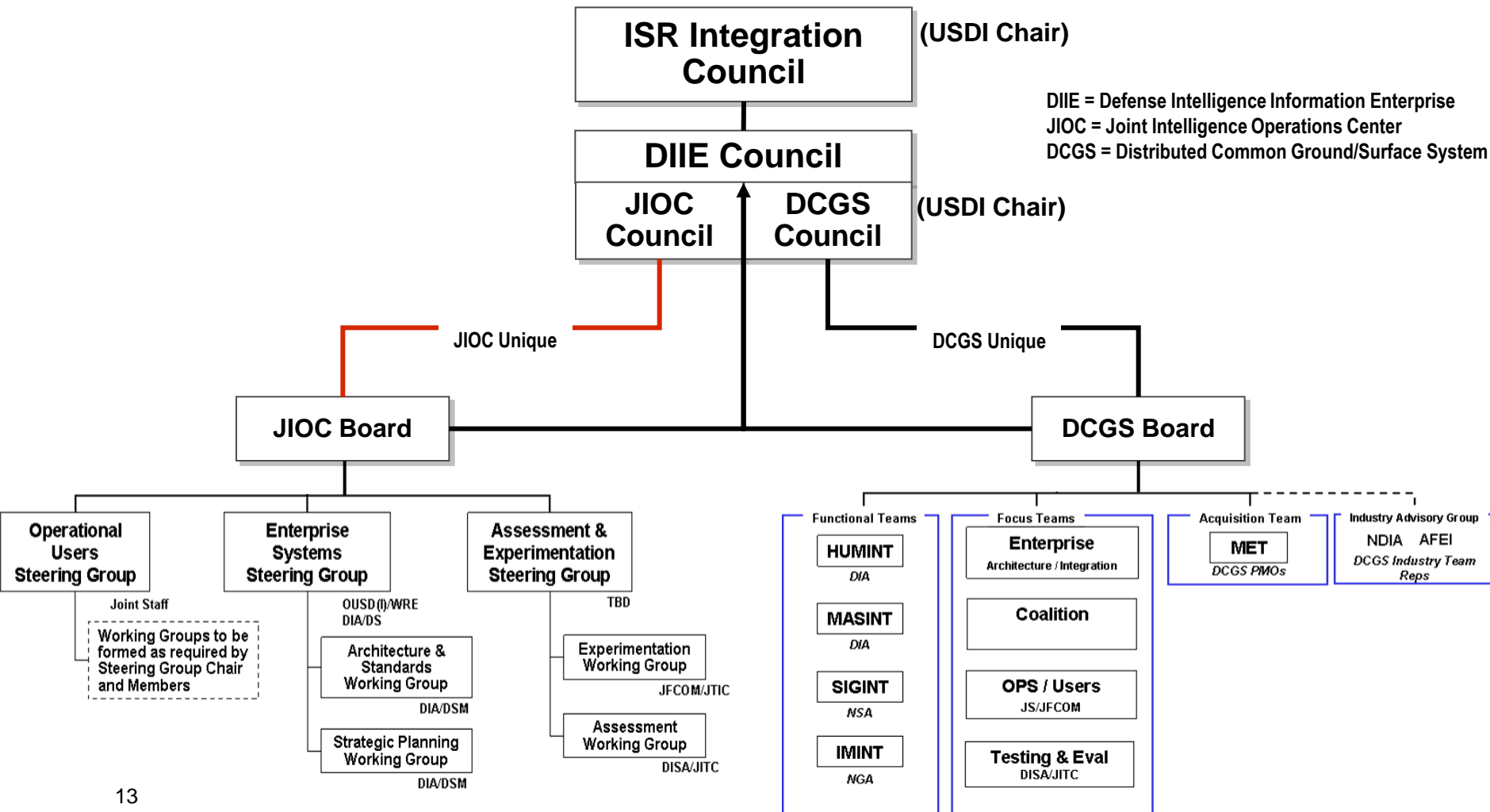
11 Operations User Steering Group Capability Gaps											
	Improved Fusion of Intel Data	Cross -Domain Services	Architecture Planning Support	C2 of ISR	Sharing with non-Traditional Partners	Adaptive Intelligence Planning	Effective Knowledge Management	Integrated Targeting Intelligence	Support to Disadvantaged Users	JIOC IT Program Management	Integrated C/HUMINT
Data Fusion	•	•	•	•	•	•	•	•	•	•	•
Cross-Domain	•	•	•	•	•	•	•	•			•
Architecture Support	•	•	•	•	•	•	•	•	•		•
Collection Management	•	•	•	•	•		•				•
Integrated Targeting	•	•	•		•		•	•			•

DIA FY12 proposal addresses all OUSG gaps



Governance

DIIE = Defense Intelligence Information Enterprise
JIOC = Joint Intelligence Operations Center
DCGS = Distributed Common Ground/Surface System





Way Ahead

- Expand and mature JIOC architecture (must be maintained)
- Capture coalition networks
- Capture CSA interfaces
- Document data sources and flows
- Perform analysis to assist with optimizing JIOC IT baseline
- Continue to support annual budget process
- Provide annual update to J2s/JIOCs on DIA progress and proposed initiatives to support COCOM missions



Summary

- Committed to establishing and maintaining JIOC Enterprise Architecture and IT Baseline to support COCOM missions
- Successfully captured JIOC As-Is IT baseline
- Developing FY12 IPOM submission to address OUSG gaps
- Will continue to leverage JIOC Enterprise Architecture work to support annual budget process
- Work will continue to expand JIOC Enterprise Architecture, incorporating CSAs, coalition networks, components, etc.

Vision, execution, & results

Report and appendices located under the heading “JSAT Milestone Report” at <https://portal.eucom.smil.mil/organizations/ecj2/PR/R/JIOCITE/default.aspx>