

# MSG-079 C-BML Workshop

## Farnborough UK, Feb 24-25 2010

# MSG-085

# C2-Simulation Interoperation



Standardization for C2 Simulation Interoperation

# Report Documentation Page

Form Approved  
OMB No. 0704-0188

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1. REPORT DATE <b>FEB 2010</b>		2. REPORT TYPE <b>N/A</b>		3. DATES COVERED <b>-</b>	
4. TITLE AND SUBTITLE <b>NATO MSG-085 C2-Simulation Interoperation</b>				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>NATO RTO</b>				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT <b>Approved for public release, distribution unlimited</b>					
13. SUPPLEMENTARY NOTES <b>See also ADA564685. 2010 Coalition Battle Management Language Workshop (Atelier 2010 sur le langage de gestion du champ de bataille pour les operations en coalition). RTO-MP-MSG-079</b>					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT <b>unclassified</b>	b. ABSTRACT <b>unclassified</b>	c. THIS PAGE <b>unclassified</b>			

# MSG 085 - Objectives

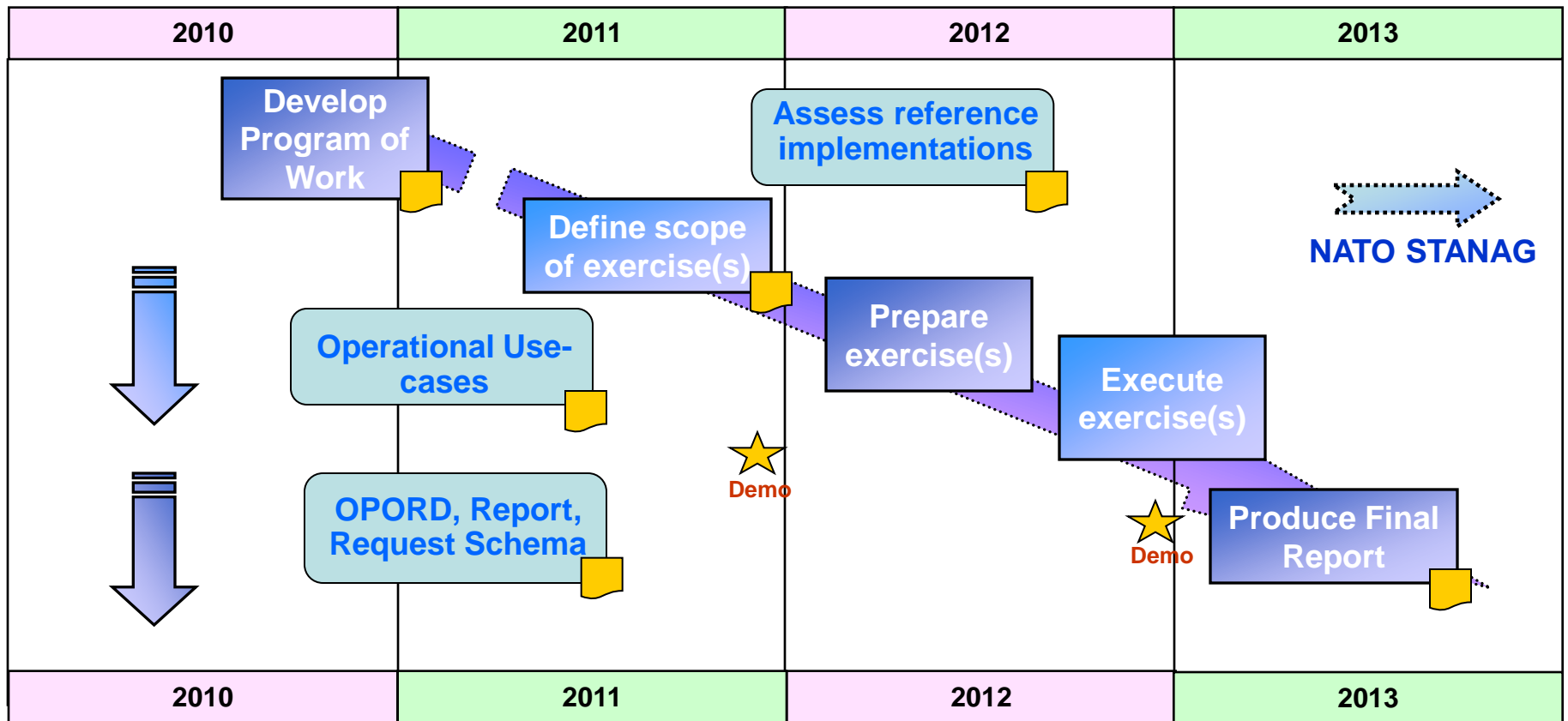
A. Pursue ongoing work to propose relevant recommendations concerning the use of C-BML with respect to current military processes

B. Investigate approaches for the deployment of C-BML capabilities complementing existing operational C2 system exchange mechanisms

**In order to support these objectives, the program should:**

1. Detail the C-BML scope and requirements
2. Provide C-BML military user guide including MSDL
3. Assess available C-BML open-source reference implementations
4. Demonstrate how C-BML complements the MIP standard
5. Show immediate operational benefits to C2 and M&S communities
6. Conduct a series of experiments if needed and operational exercises with end-users in the loop

# MSG 085 - Planning



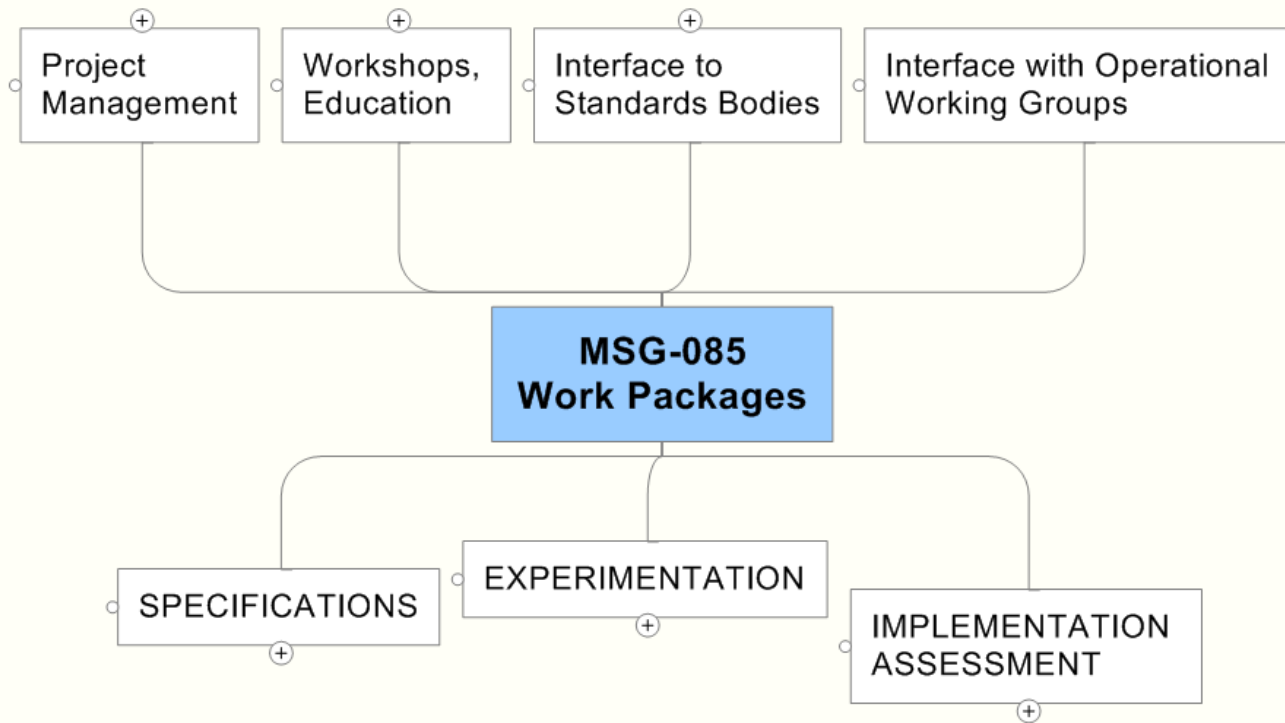
# MSG 085 - Stakeholders

- Elaborate and check requirements with operational end-users
  - JFCOM, National Forces
  - NATO (JWC, JFTC, HRF, ACO), EU-OHQ, EU-FHQ
- Identify limits of existing C2-C2 interoperability applied to C2-simulation use-cases
  - MIP Working Group
- Provide recommendations for C-BML PDG and speed up standardization
  - SISO C-BML PDG
- Nations
  - Australia, Canada, Denmark, France, Germany, Netherlands, Norway, Spain, United Kingdom, United States of America, NC3A

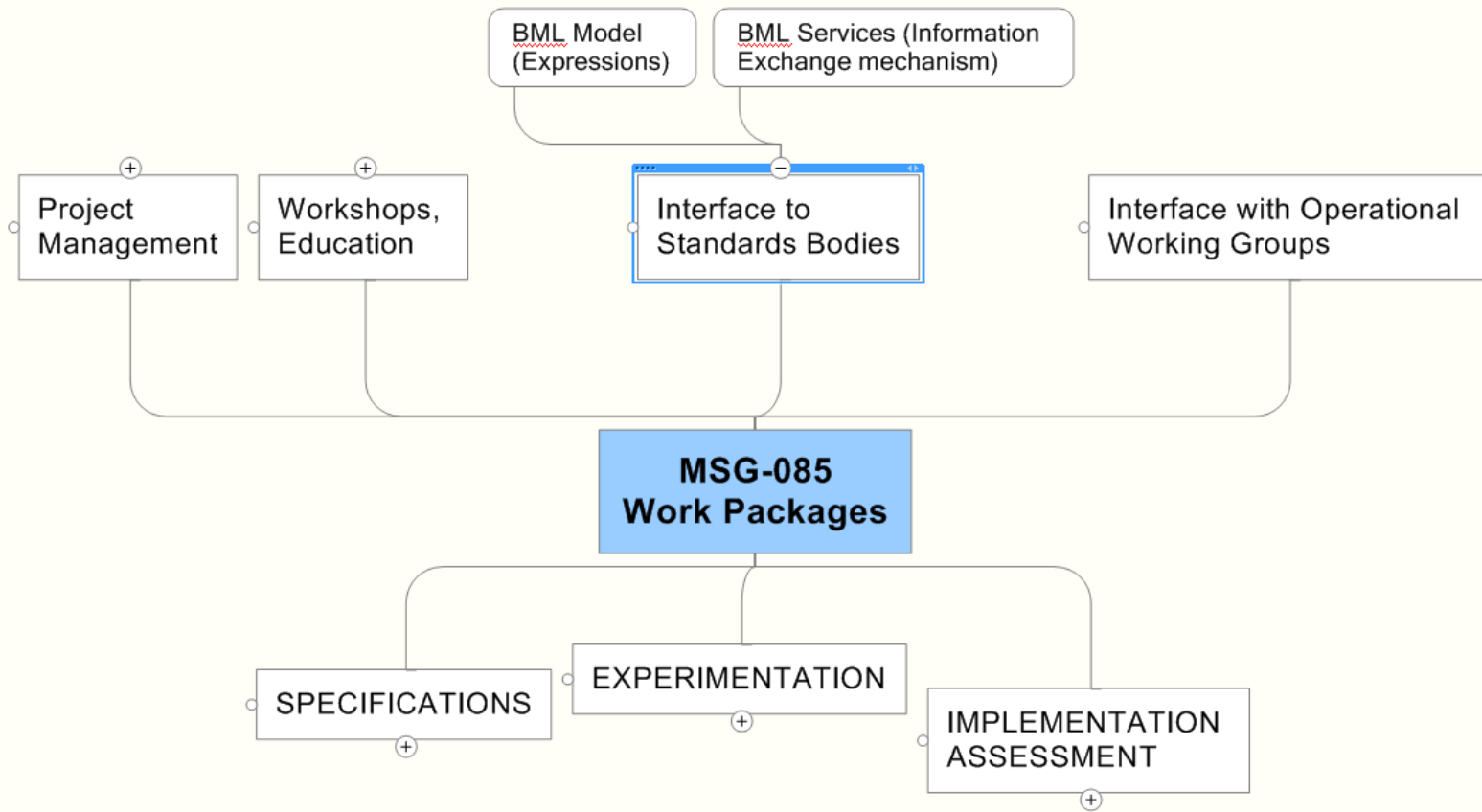
# ***MSG 085 - Deliverables***

- Statement of requirements (SOR)
- For C-BML exercise :
  1. Scenario Definition
  2. Programme of Exercise (including technical architecture and exercise organization)
  3. Integration and Test Plan
  4. Interface Control Document
- Evaluation report of C-BML open-source reference implementations
- Guidelines and procedures to use C-BML for each coalition application domain
- Final report

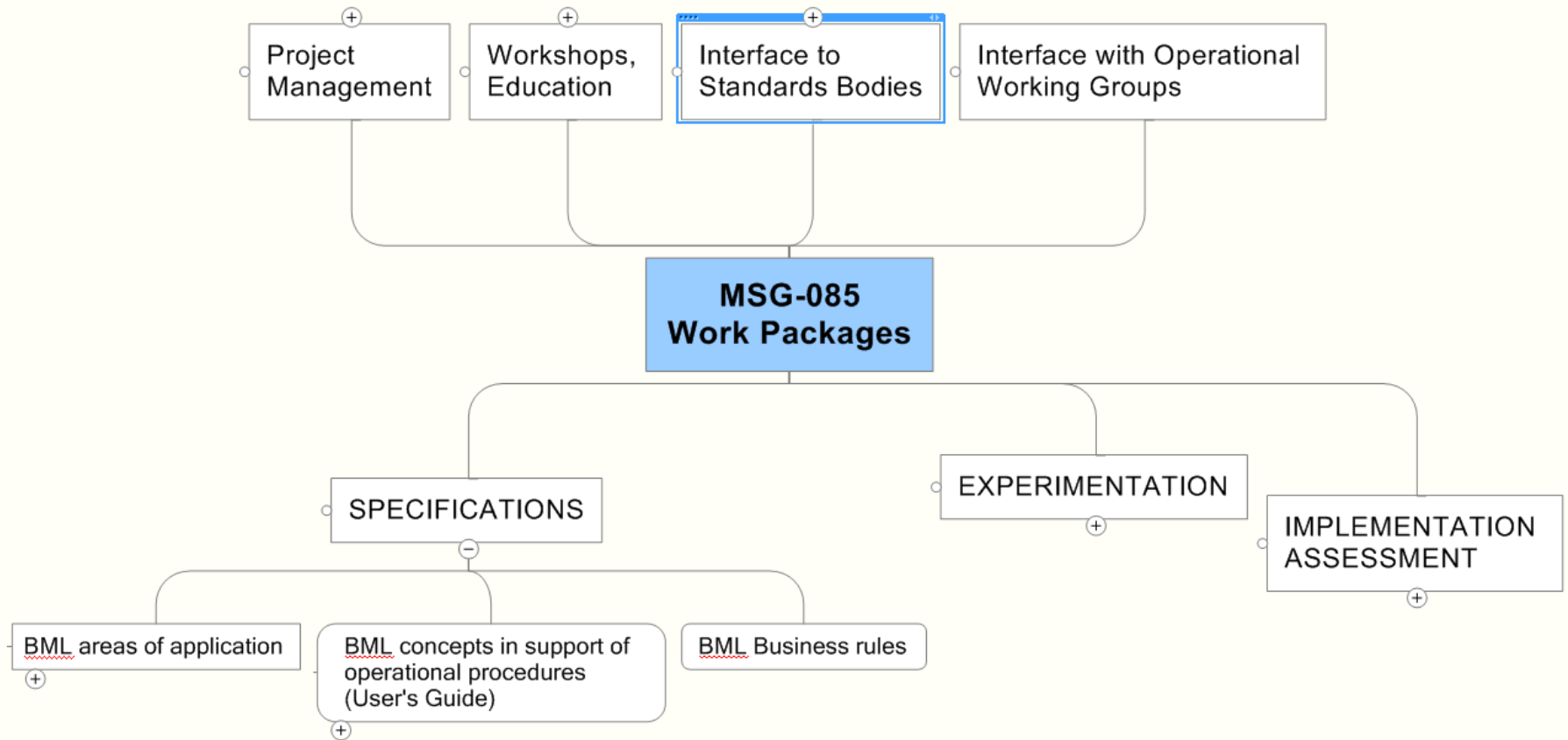
# MSG 085 – Work Packages



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# ***MSG 085 – Military Concern***

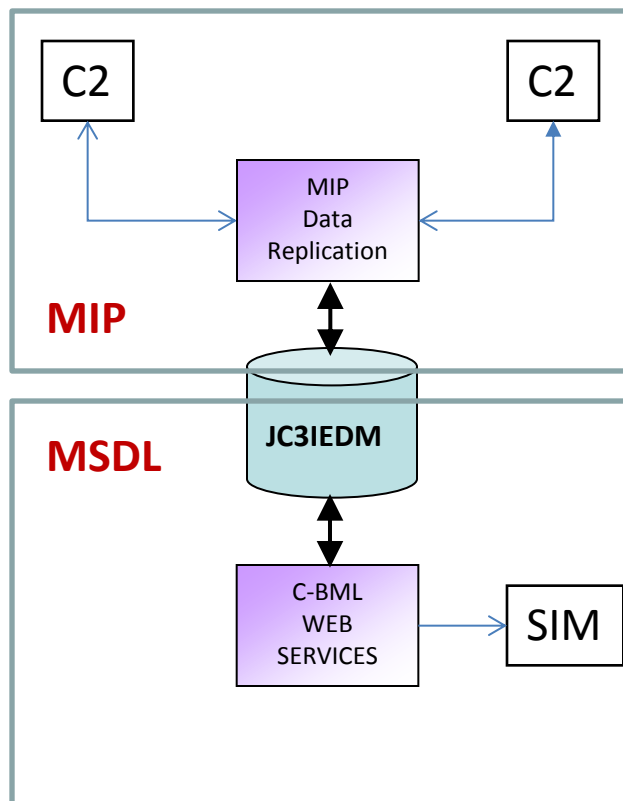
- Exchange of information should not
  - Constrain C2 system end users
  - Force to change their procedures
  - Introduce operator or system information overload
  - Require modifications or additions to existing C2 systems
  - Generate additional expenses for C2 system PM
- C-BML should
  - Only address simulation requirements and have no impact on C2 system specifications and interfaces
  - Be transparent from a C2 perspective
  - Be usable by legacy systems

# MSG 085 – User Guide Ideas

Initialization : Combine MIP / MSDL

## MIP C2-C2

- Data type
- ORBAT
- Unit initial state



## MSDL C2-SIM

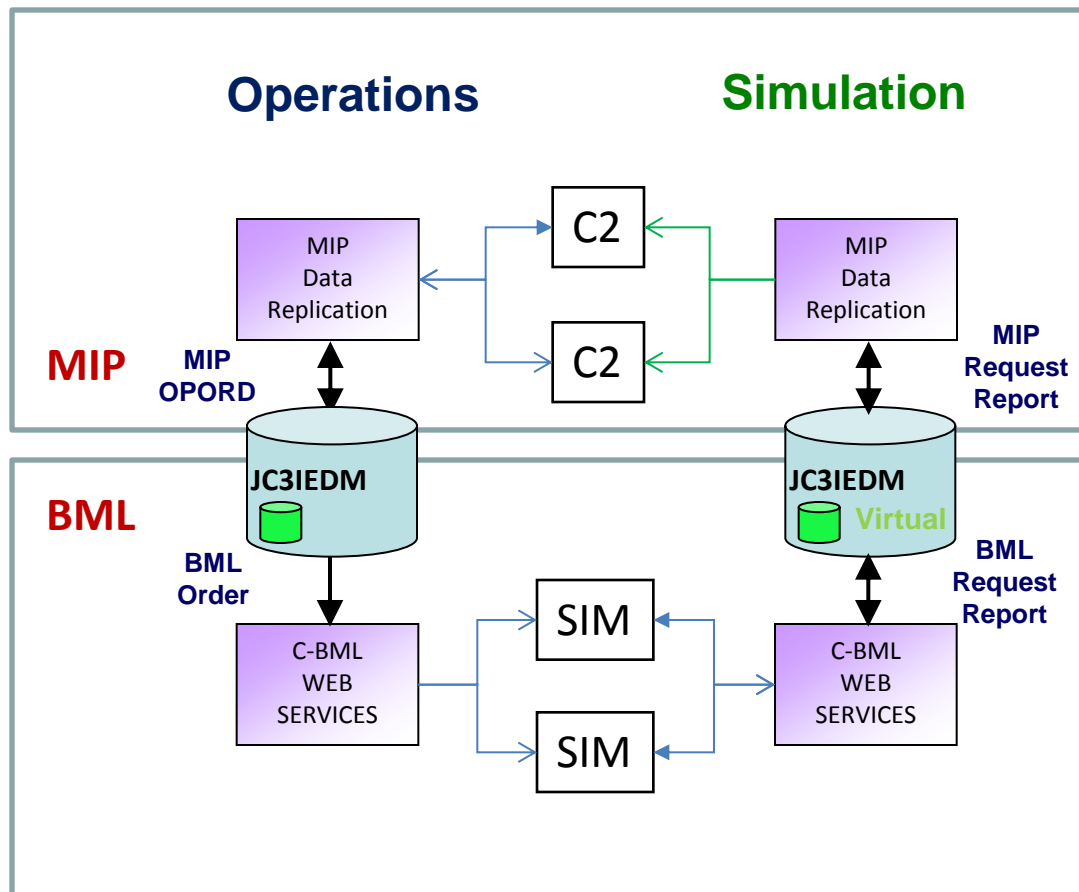
- Data type
- ORBAT
- Units initial state

# MSG 085 – User Guide Ideas

Execution MIP/MSDL: Control the simulation from the C2sys without interfering with operational databases, while preserving legacy C2 system interfaces

## Order

- Actions
- Control features
- Coordination measures
- Task Organization



# MSG 085 – 2010 ... 2013

- Reach a TA consensus between **the military requirements** to use quickly C-BML and **the academic expectations** about a perfect system demonstrating full potential of theory (**2010**)
  - Focus on short term
- Be adopted by the **MIP** as a **COI** to secure the future of C-BML in demonstrating real value to the MIP Program Management Group and IPT Future (**2011**)
  - Provide : Grammar, Web services, Data Model subviews, Joint capabilities
  - Leverage : MIP testing with the use of simulation
  - Lobbying: National representatives and TA liaison officer

# ***MSG 085 – 2010 ... 2013***

- Start the process for SISO C-BML standard (DG) to become a STANAG (**2012**)
- Field C-BML during an exercise involving on duty military SME's, decision makers and key leaders (**2013**)
- Advertise, educate and demonstrate at large the real potential of C-BML (**permanent**)
  - Annual symposium, international workshops
  - I/ITSEC, ITEC, NATO conference, SISO

***MSG-085 high expectations for a tremendous challenge***

## TG 085 Co-chairs

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