

C4I Evolutionary Trends

Presentation to
Ninth Annual
Special Operations/Low Intensity Conflict
(SO/LIC)
Symposium and Exhibition

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02/18/98

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Form SF298 Citation Data

Report Date <i>("DD MON YYYY")</i> 18021998	Report Type N/A	Dates Covered (from... to) <i>("DD MON YYYY")</i>
Title and Subtitle C4I Evolutionary Trends		Contract or Grant Number
		Program Element Number
Authors		Project Number
		Task Number
		Work Unit Number
Performing Organization Name(s) and Address(es) Information Assurance Technology Analysis Center (IATAC) 3190 Fairview Park Drive Falls Church VA 22042		Performing Organization Number(s)
Sponsoring/Monitoring Agency Name(s) and Address(es)		Monitoring Agency Acronym
		Monitoring Agency Report Number(s)
Distribution/Availability Statement Approved for public release, distribution unlimited		
Supplementary Notes		
Abstract		
Subject Terms		
Document Classification unclassified	Classification of SF298 unclassified	
Classification of Abstract unclassified	Limitation of Abstract unlimited	
Number of Pages 12		

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 074-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503

1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE 2/18/98	3. REPORT TYPE AND DATES COVERED Briefing	
4. TITLE AND SUBTITLE C4I Evolutionary Trends			5. FUNDING NUMBERS	
6. AUTHOR(S) Not provided				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Information Assurance Technology Analysis Center (IATAC) 3190 Fairview Park Drive Falls Church, VA 22042			8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) Defense Technical Information Center DTIC-AI 8725 John J. Kingman Road, Suite 944			10. SPONSORING / MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION / AVAILABILITY STATEMENT			12b. DISTRIBUTION CODE A	
13. ABSTRACT (Maximum 200 Words) This briefing focuses on the Evolutionary Trends in the C4I area. It was developed for the Special Operations/Low Intensity Conflict (SO/LIC) Symposium and Exhibition. It discusses the Basic command and control cycle, the functional C2 processes, the increased integration and simultaneity given the current trends in C4I, it discusses what now is different because of the trends in C4I and how this has resulted in better battlespace visualization. This has resulted in what is termed information-enabled organizations, this causes these organizations to become adaptive decision making teams. This leads to increases in effectiveness and efficiency.				
14. SUBJECT TERMS C4I			15. NUMBER OF PAGES	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified		20. LIMITATION OF ABSTRACT Unlimited

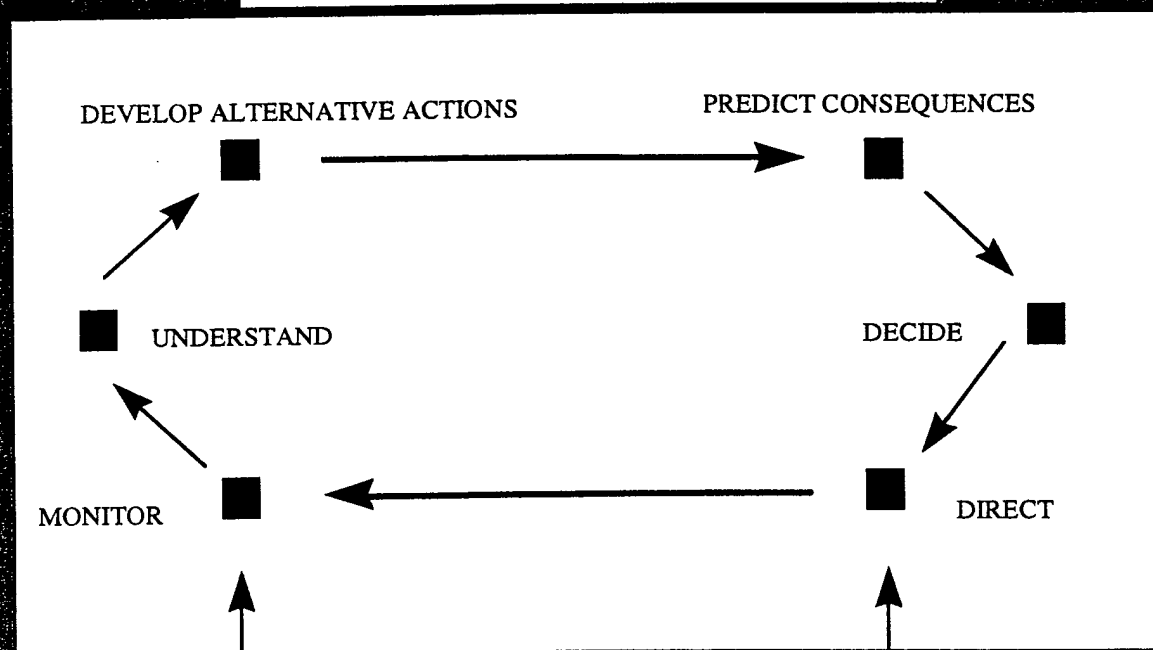
NSN 7540-01-280-5500

Standard Form 298 (Rev. 2-89)
Prescribed by ANSI Std. Z39-18
298-102



Basic Command and Control Cycle

HEADQUARTERS



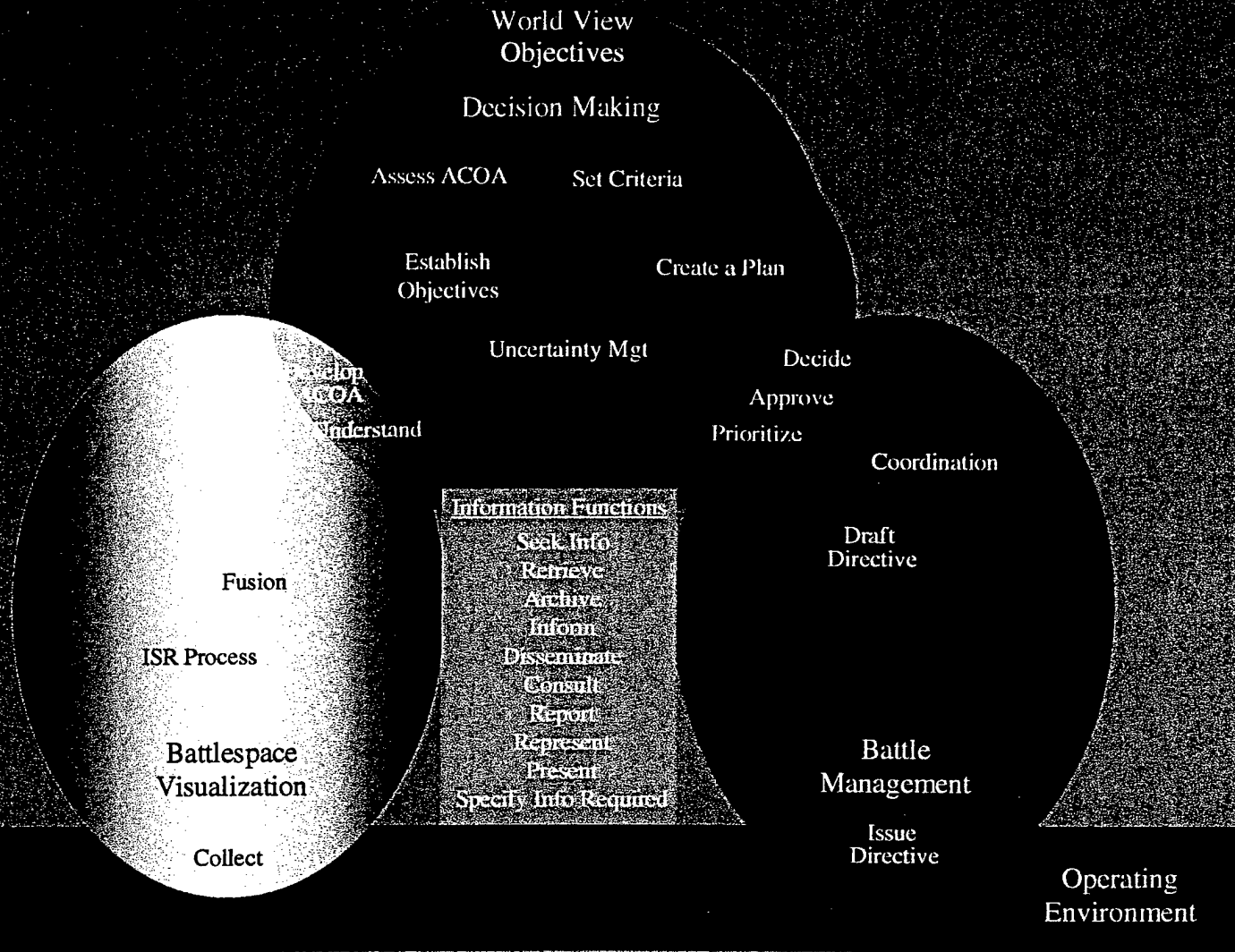
ENVIRONMENT:
- OWN & ENEMY FORCES
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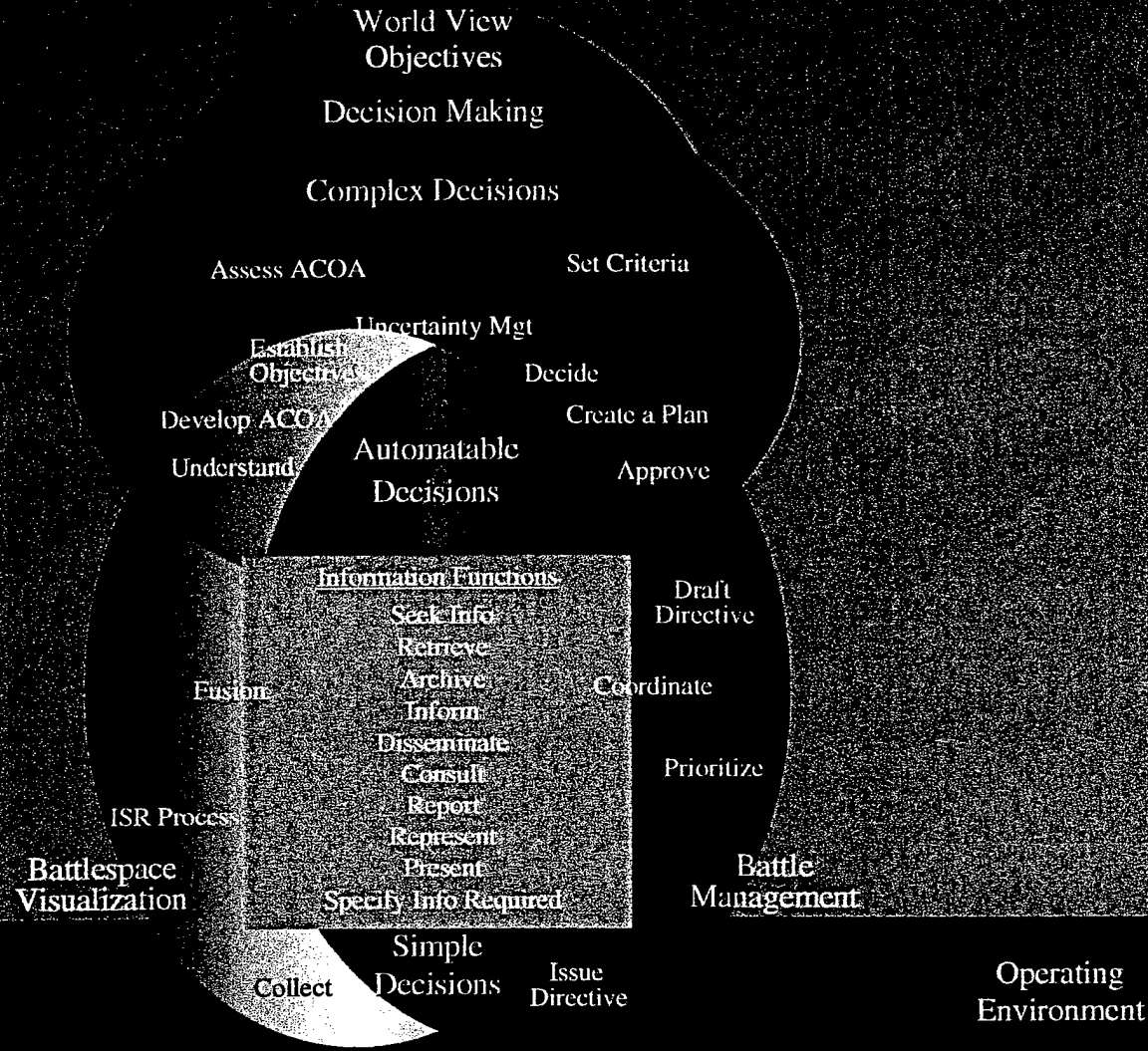
Generic Functional C2 Processes



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Increased Integration & Simultaneity



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What's Different?

- Better Battlespace Visualization
- Information Enabled Organizations
- Adaptive Decision Making
- Agile Battle Management
- Significant Increase in Force Effectiveness and Efficiency



Better Battlespace Visualization

- More complete, current and consistent
- More comprehensible
- Flexible retrieval and presentation (pan, zoom, associate)
- Future explicitly considered
- More explicit management of uncertainty



Information Enabled Organizations

- Virtual teams
- More integrated across function, level of command, and time
- More agile organizations
- More distributed information and processes
- Improved organizational learning

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Adaptive Decision Making

- Context driven decision processes
- Imbedded, predictive decision support
- Rapid plan/re-plan capability
- Contingency rich COA analyses and plans

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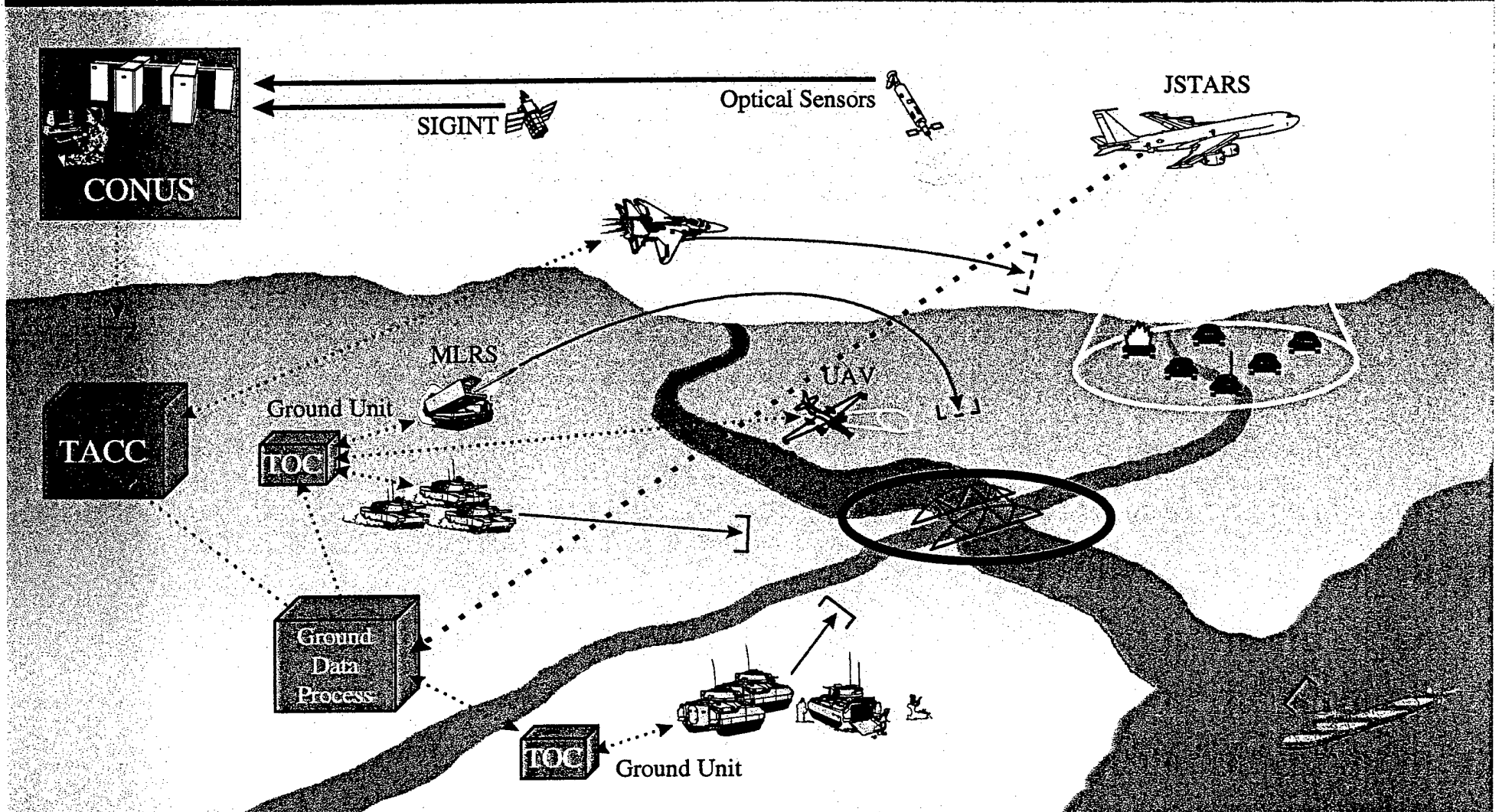
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Increases in Effectiveness and Efficiency

- Seize and maintain the initiative
 - Shape the battlespace
 - Phase the campaign
 - Control the pace of the battle
- Kill the right targets
 - Less lethal battle space and less collateral damage
 - Shorter duration
 - Increased adversary “Shock and Awe”
- Concentration of fires replaces concentration of mass
- More efficient use of communications and logistics systems
- Traditional battle outcome measures (e.g. kill to loss ratios, territory conquered, mission accomplishment)



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| ← | Primary Info Link | ←..... | Single String Info Link | ┌ | Possibly Available |
| ←... | JSTARS Data | ← | Weapons Employment | └ | Too Late for Tactical |

