Factors Affecting the Effectiveness of a Coalition C3 System

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Overview

- **Coalitions**
- **Command, Control and Communications (C3)**
  - Command and Control (C2) Structures
  - Coalition C2 Models
  - Communications Paradigm
- **Coalition C3**
  - Coalition C3 Lifecycle
  - Changes in the Coalition
  - Assessment of Coalition C3 Capability
Coalitions

- Conducted by two or more forces
- Includes forces that can be allies and non-allies
- Need to act together for the accomplishment of a single mission
- All coalition operations are different
- Each country has a particular objective and elements of capability to contribute
Command, Control and Communications

C1 = Command is authority of forces
C2 = Control is allocation of resources
C3 = Communications facilitating C2

C1 + C2 + C3 = C3
Coalition C2 Models

- Centralised
- Decentralised
- Distributed
- Collective
Different C3 Structures operate under different communications paradigms

- Hierarchical
- Hub and Spoke
Coalition C3 System

- Model developed to address perceived shortfalls in methodologies by which to assess ADF coalition C3
- Looks at both coalition and the C3 aspects individually
- Describes how each aspect influences the other in the formation of the C-C3 system, and how the system develops over-time.
- Components of a C-C3 System
  - Coalition Entity
  - C3
  - Coalition C3
Coalition C3 Lifecycle

- Trigger
- Coalition Building
- Coalition Implementation
- Coalition Operational
- Disestabishment
Coalition Building

National frameworks → Negotiate → Coalition framework

- Political
- Legal
- Cultural
Coalition System

Nation A
C3 system

Nation C
C3 system

Nation B
C3 system

Nation D
C3 system

Coalition C3 System
Changes in the Coalition
## Assessing Coalition C3 Capability

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<th>C3 Dimensions</th>
<th>C3 Aspects</th>
<th>Interoperability Considerations</th>
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<td>Political Dimension</td>
<td>Intent</td>
<td>Ethos; Political aims; Alignment of ethical backgrounds; Military goals</td>
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<td>Legal Dimension</td>
<td>Authority</td>
<td>Legal constraints/enablers; alliances; agreements; ROE</td>
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<td>Human Dimension</td>
<td>Cultural &amp; Social Issues</td>
<td>Culture; trust; experience; understanding; morals; personality</td>
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<td>Military Dimension</td>
<td>Command Philosophy</td>
<td>Centralised; decentralised; distributed; collective...</td>
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<td>Command Structure</td>
<td>Lead nation; Parallel command; Integrated forces; Mixed</td>
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<td>Control Arrangements</td>
<td>Processes; SOPs; Assignment of forces/resources; Doctrine; Training</td>
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<td>Information Dimension</td>
<td>Information Environment Issues</td>
<td>Information availability; Awareness levels</td>
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<td>Information Exchange Issues</td>
<td>Systems; data; Infrastructure</td>
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<td>Information Security</td>
<td>Shared; compartmented; national only...</td>
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<td>Communications</td>
<td>Personality; language; technical equipment</td>
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Summary

- Future operations are likely to involve both allies and non-allies members
- A Coalition C3 system is required to be built, negotiated and implemented
- Identified factors affecting the development of a Coalition C3 system
- Shown different stages of a coalition operation that it will cycle through
Questions