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# **COMBINED FEDERATED BATTLE LABORATORIES NETWORK (CFBLNet)**



## **PUBLICATION 1**

# **ORGANIZATION AND RESPONSIBILITIES**

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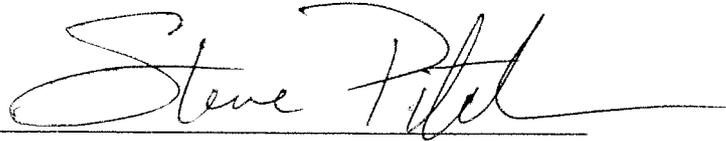
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**APPROVAL**

The CFBLNet Publication 1, is hereby approved by the C-EG.

A handwritten signature in black ink that reads "Steve Pitcher". The signature is written in a cursive style with a long horizontal line extending to the right.

Mr. Steve Pitcher

(date)

30 Oct 2009

Joint Staff/J6

USA DoD C-EG Representative and Chair

*With concurrence and endorsement from:*

Wing Cdr Tim Neal-Hopes  
CCEB Executive Group  
CCEB C-EG Representative

Mr. Einar Thorsen  
NATO C3 Agency  
NATO C-EG Representative

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## CHAPTER 1 – INTRODUCTION

### Purpose

101. Combined Federated Battle Laboratories Network (CFBLNet) Publication 1 (Pub 1) describes the organization and responsibilities for the CFBLNet, which functions under the authority of the Charter/Technical Arrangement signed by the following (defined as the CFBLNet Senior Steering Group (C-SSG)):

- a. The US Department of Defense Joint Staff Vice Director J6, on behalf of the USA;
- b. A Principal representing the Combined Communications-Electronics Board (CCEB), on behalf of Australia, Canada, New Zealand and the United Kingdom; and
- c. The General Manager of the North Atlantic Treaty Organisation (NATO) Consultation Command and Control (C3) Agency (NC3A), on behalf of NATO (the organization) and its member nations.

### Authority

102. The CFBLNet Executive Group (C-EG) signs and issues this publication on behalf of the C-SSG. The provisions of this document shall govern the conduct of all activities performed on the infrastructure or by the CFBLNet community, subject to the respective laws and military regulations of the participants' nations.

### Document Structure

103. Pub 1, Main Document has the following structure:

- a. Introduction
- b. Overview
- c. Working Group Processes and Procedures

### Amendments

104. The CFBLNet Pub 1 is amended in one of two ways: when the C-SSG makes a decision or provides direction that necessitates an amendment during its biennial review process; or when the C-EG determines that there is a need to amend CFBLNet Pub 1 between the C-SSG Meetings. In both cases the Secretariat will generate the text of the proposed amendment to the Chair of the C-EG, and then circulate the amendment to the C-EG Members for endorsement. Once all Members have endorsed the amendment, the Secretariat will amend and/or re-issue CFBLNet Pub 1.

### Effective Date

105. This issue of the CFBLNet Pub 1 is effective on date of signature by the C-EG.

## CHAPTER 2 – OVERVIEW

### CFBLNet Vision

201. The vision of the CFBLNet is to provide the infrastructure of choice for research, development, trials, and assessment (RDT&A) that enable CFBLNet Mission Partners to field comprehensive operational Command, Control, Communication, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) capabilities.

202. The changing nature of contemporary and future warfare demands that CFBLNet be capable of evolving to support the integration of all mission partners involved across the spectrum of operations<sup>1</sup>, based upon DOTMLPF<sup>2</sup> constructs.

### CFBLNet Mission

203. The CFBLNet functions under a Technical Arrangement signed by the C-SSG on behalf of the nations and organizations that they represent. The CFBLNet is a mission driven organization formed to support:

- a. The evaluation of combined C4ISR interoperability, capabilities and shortfalls to improve coalition information exchange capabilities;
- b. The exploration of and experimentation with emerging capabilities;
- c. The examination and resolution of deficiencies in existing applications, systems or equipment;
- d. Recommendations for the means to foster improved combined Communications and Information Systems (CIS) for the explicit purpose of promoting near term concepts and acceptance of solutions.

### CFBLNet Description

204. CFBLNet is a multinational, research, development, training, trials and assessment infrastructure based on an IP backbone network. The term also covers the supporting staff, working groups and management structure. The CFBLNet consists of a distributed and integrated network architecture of Combined, Joint, and Service infrastructure components (networks, database servers, application servers, client workstations, etc.). These are located within the confines of the various battle laboratories and experimentation sites of the participants, which provide the applications, analytic tools, security devices and communications necessary to conduct Initiatives.

205. Each participant in the CFBLNet provides, manages, supports and is responsible for its own national/organizational infrastructure, which collectively form the CFBLNet. The USA Defense Information Systems Agency (DISA), in coordination with the participants, will

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<sup>1</sup> Doctrinally referred to in the literature as “spectrum of conflict.”

<sup>2</sup> Doctrine, Organization, Training, Material, Leadership, Personnel, and Facilities

centrally coordinate network management. Details of the network and services aspects are contained in CFBLNet Pub 1 Annex D – CFBLNet Network Operations.

206. The products of the CFBLNet are the provision of services to enable Core and Guest CFBLNet Mission Partners (CMPs and GMPs) to conduct Initiatives. The generation and distribution of reports on the conduct and results of Initiatives and the associated recommendations to decision-making authorities on the implementation of interoperability solutions are the responsibility of the Initiative Lead.

207. Lessons learned from Initiatives will be available to all CMPs regardless whether a CMP participates in that Initiative. GMPs will have the visibility of lessons learned of initiatives they have participated in, and will receive a copy of the Annual Report. CMPs and GMPs can request more detail from the C-EG, but the level of detail to be included will be dependent upon the classification and sensitivity of the information.

### **Membership**

208. The CFBLNet is a voluntary association of Principle Partners comprising the USA, NATO and CCEB. NATO represents its organizational interests and the interests of Mission Partners comprising NATO, except for CAN, GBR and the USA. The CCEB<sup>3</sup> represents its organizational interests and the interests of Mission Partners comprising the CCEB except for the USA, who is represented separately. For the purposes of the CFBLNet, CMPs belong to one of the three entities (USA, NATO and CCEB) described in this paragraph. Other Potential Mission Partners (PMP) are encouraged to participate in Initiatives through sponsorship by a CMP. Once accepted by the C-EG these PMPs are known as GMP; for details of the sponsorship process, see Annex F to this document.

209. CMPs and GMPs retain their individual right to participate or not in CFBLNet activities.

210. **Liaison with Other International Bodies.** For the CFBLNet to be accepted and used as the infrastructure of choice for international C4ISR activities, an important role for the CFBLNet is to interact closely on these matters with other single Service and research organizations. To this end, all levels of the CFBLNet should strongly promote and encourage both formal and informal cooperative efforts with other joint and combined organizations. Wherever possible and when invited, the CFBLNet will be appropriately represented and will provide presentations at other groups' plenary meetings and subordinate groups' meetings.

### **Network Architecture**

211. As described in Annex D the CFBLNet provides a networked environment between CMP Points of Presence (POPs) for the purpose of conducting Initiatives. It consists of the following components:

- a. Backbone Infrastructure (BLACKBONE). The BLACKBONE provides a common, closed, unclassified IP routed network layer implementation. Its primary purpose is to transport encrypted traffic throughout the network.

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<sup>3</sup> Within Pub 1 the CCEB represents AUS, CAN, GBR and NZL, however, includes USA outside of this publication.

- b. BLUE Enclave. A permanent classified IP routed logical network operating over the BLACKBONE. It will operate as a System High logical network at the SECRET level, releasable AUSCANNZUKUS + NATO.
- c. CFBLNet Unclassified Enclave (CUE). The CUE is a permanent enclave operating over the BLACKBONE.
- d. Persistent Enclaves. An enclave created for an infinite period to support the execution of multiple Initiatives and operating over the BLACKBONE. It will operate as a System High logical network at the SECRET level, releasable to the CAVEAT approved by the C-EG.
- e. Temporary Enclaves. An enclave created for a finite period to support the execution of specific Initiatives and operating over the BLACKBONE. The level of classification and release caveats used within these enclaves will be determined by the Initiative requirements.

## Security

212. Each Initiative Participant is responsible for implementing CFBLNet Security Management Policies and Procedures detailed in CFBLNet Pub 1 Annex C. The CFBLNet Secretariat is responsible for overseeing the day-to-day security management functions in accordance with the agreed upon procedures within CFBLNet Pub 1 Annex C.

## Initiatives

213. Annex B describes the management of Initiatives where an Initiative is any experiment, trial, demonstration, training or other activity utilizing the CFBLNet. Initiatives can encompass any activity within the research, development, trial and assessment community that requires the use of a network in its execution.

214. CFBLNet Initiative nominations may be originated through a CMP or a GMP to examine combined interoperability issues.

215. As described in Annex C, participation within a CFBLNet Initiative can include any Service, Agency or specific organization from a CMP. PMPs may be proposed by the CMPs to participate in CFBLNet Initiatives, in line with the requirements of Annex F.

216. Initiative Participants will ensure that all proprietary interests and Intellectual Property Rights are identified and protected in accordance with the relevant Memorandum of Understanding (MOU). The proprietary interests and Intellectual Property Rights arising from Initiatives will not be sold, transferred or otherwise disclosed without the prior written consent of Initiative Participants.

217. An Initiative Participant will notify other Initiative Participants as soon as practical if it needs to withdraw, and will consult with other Initiative Participants on the course of action to be taken, with a view towards continuation on a changed or reduced basis.

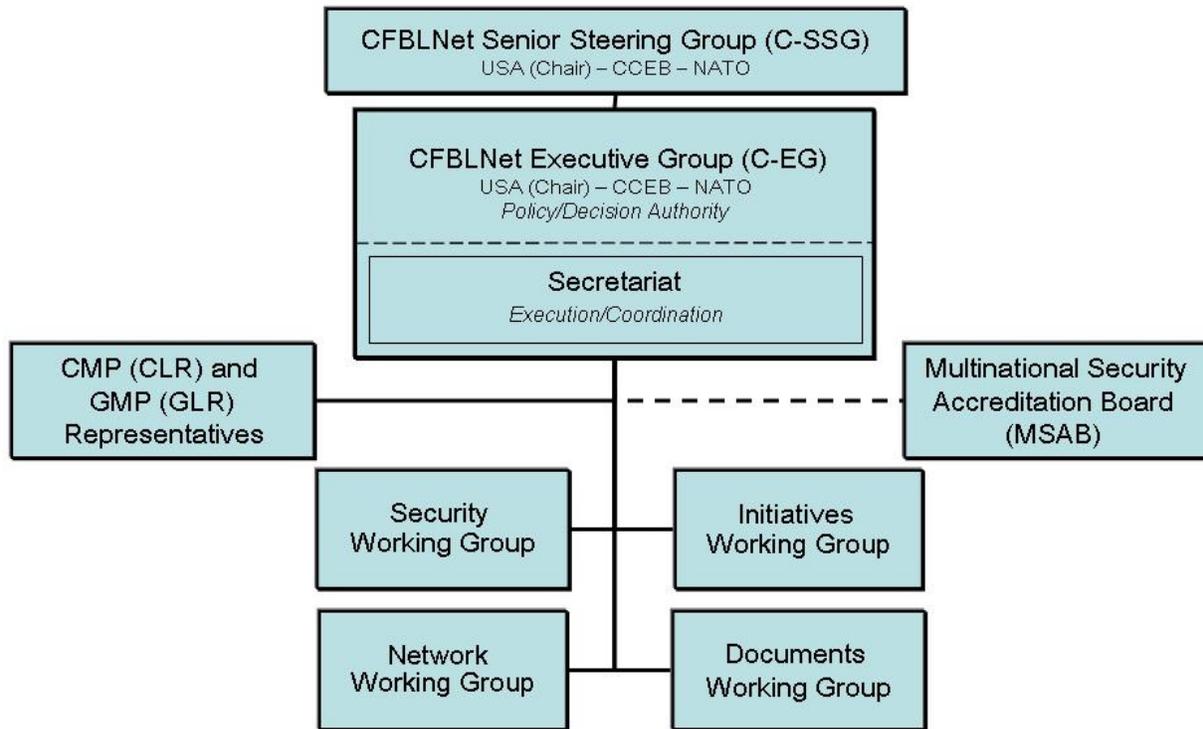
## CFBLNet Management Structure

218. The CFBLNet organizational hierarchy is shown in Figure 1-1, and responsibilities are detailed in Annex A. The following summarizes CFBLNet organizational entities:

- a. CFBLNet Senior Steering Group (C-SSG). The C-SSG is the flag level group (representing the USA, and the nations/organizations of CCEB and NATO) that provides oversight for all CFBLNet activities.
- b. CFBLNet Executive Group (C-EG). The C-EG is the full Colonel or equivalent level group (representing the USA, and the nations/organizations of CCEB and NATO) that provides policy and decision-making on behalf of the C-SSG.
- c. CMP Lead Representative (CLR). Each CMP will nominate a single CLR as its primary point of contact for all CFBLNet matters.
- d. GMP Lead Representative (GLR). Each GMP will nominate a single GLR as its primary point of contact for all CFBLNet matters.
- e. CFBLNet Secretariat. The Secretariat is provided by the USA DISA Multinational Information Sharing Program Management Office (MNIS PMO) and is the central point for the coordination of day-to-day management of all CFBLNet activities including: Initiative processes; coordination of resources, and network management. The Secretariat will provide services and liaise with Initiative Participants through the CLRs and GLRs as well as provide the required administrative support functions for the CFBLNet.
- f. Permanent Working Groups. Four Permanent Working Groups (WGs) have been established to ensure the provisioning and maintenance of an effective, secure network on which Initiatives can be conducted. They report to and receive direction from the C-EG on behalf of the C-SSG. CMPs are encouraged to provide specialist representatives to relevant WGs in order to ensure CMP interests are properly considered. Permanent WGs currently consist of Initiative Working Group (IWG), Security Working Group (SWG), Network Working Group (NWG), and Documents Working Group (DWG). Specialist representatives from other organizations may also be called upon to assist the WGs.
- g. Subordinate/Ad Hoc Groups. With the agreement of the C-EG, subordinate/ad hoc groups may be stood up by Permanent WGs to steer specific Initiatives or to address specific issues. Such groups report to and receive direction from their parent WG.
- h. Multinational Security Accreditation Board (MSAB). Although the MSAB is not under the CFBLNet Management Structure, it is an endorsement authority that works in conjunction with the CCEB, NATO, and nations' National Accreditation Authorities (NAA).

219. CFBLNet Management Meeting (CMM). During a CMM, the C-EG, Secretariat and WGs convene periodically in plenary forum to receive national updates and overview briefings on proposed Initiatives, review issues of broad interest to the CFBLNet community, and to

receive out-briefs on outcomes from WG deliberations. During the CMM, WGs convene separately, or as required in joint session, to conduct WG specific activities including the critical examination of proposed Initiatives, address network configuration issues and security aspects related to Initiatives, and review status of in-progress Initiatives. The WGs also examine specific CFBLNet issues, and present proposed solutions and recommendations to the C-EG.



**Figure 1-1 CFBLNet Organizational Hierarchy**

### Dispute Resolution

220. Any dispute arising among the Initiative Participants will be resolved in consultation with the CLRs and/or GLRs and CFBLNet Secretariat. If necessary, an issue may be referred to the C-EG for resolution. A dispute may not be referred to any individual, national or international tribunal, or other Third Party for settlement except as noted above.

221. An Initiative may be terminated at any time by the unanimous written consent of all the CMPs (GMPs impacted must be considered) involved in the Initiative who will consult at the appropriate level prior to a decision to terminate an Initiative. Initiative Participants may withdraw from an Initiative following consultation at an appropriate level to ensure that such a withdrawal is conducted in an equitable manner.

### Resources

222. Participants in Initiatives are responsible for bearing their own costs to participate in each Initiative. The costs of the portion of the network and applications provided are borne by the Initiative Participants.

223. CMPs and GMPs are responsible for establishing their own Mission Partner Point of Presence (POP) and supporting infrastructure and for connecting the Mission Partner POP to the CFBLNet at a mutually agreeable POP.

224. Participation in CFBLNet activities from a legally binding aspect on the part of CMPs and GMPs Initiative Participants are covered in relevant MOUs or Data Sharing Agreements.

## **CHAPTER 3 – CFBLNet Management Meetings (CMMs)**

### **General Planning**

301. The CMMs will occur when required, at a minimum of once annually, to discuss CFBLNet issues, examine any significant matters and provide recommended solutions to the C-EG. The C-EG will normally meet concurrently and collocated with the CMM. Every effort will be made to align the CMM locations and timing to coincide with other meetings so as to maximize the use of resources to realize a cost savings for all CMPs by being cognizant of budgetary constraints. The CMM is the forum for CMP representatives to examine and review CFBLNet documentation, Initiatives, results and provision of services. Its purpose is to inform the CFBLNet community in plenary forum about Principal Participant decisions and to make recommendations for future development and activities. Concurrently, individual WGs will conduct specific discussions as required. Attendance is open to representatives from CMPs. Representatives from GMPs may be formally invited by the C-EG to participate in specific sessions related to Initiatives in which they are included.

### **Entrance Criteria**

302. The following submissions are required a minimum of three weeks prior to the start of each scheduled CMM:

- a. Requests for CMM overall and plenary agenda items must be submitted to the Secretariat.
- b. Requests for Active WG agenda items must be submitted to the Active WG Chairs.
- c. CMP (and GMP) presentations must be submitted to the respective C-EG representative.
- d. New Initiative Proposals must be submitted to the IWG Chair through sponsor CMPs CLR or GMPs GLR.
- e. Updates on the status of Initiatives must be provided to the IWG Chair and the Secretariat.
- f. Updated site status must be submitted to the Secretariat.

### **Post CMM Requirements**

303. Upon the completion of a CMM, the Secretariat will post all CMM submitted and releasable briefs to the CFBLNet Web site(s) and collaborative workspaces as required. The website will include meeting Minutes, C-EG guidance and direction, action items, attendees list with POC information, updated status of Initiatives and sites with post-CMM changes.

## CHAPTER 4 – WORKING GROUP PROCESSES AND PROCEDURES

### General

401. The Chair of each WG is responsible for the conduct of its business, including meeting notices, agendas, meeting administration, meeting records, action on papers and coordination of comments and briefs. The Chair will ensure that relevant papers are circulated in advance of each meeting so that members have sufficient time to staff issues internally. The Chair or a delegated representative may be asked to participate in relevant agenda items of C-EG and C-SSG meetings.

402. WG Chair appointments will be ratified by the C-EG and will rotate every 24 months.

- a. SWG Chair. Only a Government/Military representative will fill this position. The rotation cycle will be CCEB-NATO-USA. However, volunteer appointments will take precedence over the rotation cycle.
- b. NWG Chair. This position will be permanently held by a USA representative.
- c. DWG and IWG Chairs. The rotation cycle will be CCEB-NATO-USA. However, volunteer appointments will take precedence over the rotation cycle.

403. WG members are appropriate experts from the CMPs. The WG may also invite specific personnel with particular expertise to all or part of a WG meeting. This is done by unanimous agreement of the CLRs prior to the meeting. Representatives from GMPs participating in an initiative may be formally invited by the C-EG to attend specific WG sessions addressing that initiative. WGs are expected to complete their affairs in a distributed/electronic manner to the greatest extent possible.

404. While each WGs program of work will be approved by the C-EG, each group must be cognizant of the need to respond to the Secretariat, which is responsible for the day-to-day management of the CFBLNet activities.

### Working Process and Decision Making

405. Each WG strives to achieve unanimous agreement between the members. However, in the event that this is not achievable, advice based on majority opinion may be offered to the C-EG, provided that it is made clear at the time that unanimity was not achieved. Areas of agreement and disagreement should be clearly and fairly stated to the C-EG.

406. The business of each WG should be conducted through informal discussion, correspondence and distributed collaboration wherever possible. To this end WG recommendations will not amount to specific commitments by members. However, support of a recommendation is to be considered a declaration of intention given in good faith at the time.

407. Recommendations will be informal until approved by the appropriate CLRs. Actions resulting from discussions and agreements within the WG will be formally staffed and coordinated in accordance with the CFBLNet processes and procedures.

408. It is the responsibility of the C-SSG and C-EG members to secure concurrence of the Mission Partners they represent for all formal decisions. This concurrence shall be in accordance with their internal Mission Partner processes.

409. Decisions made at the C-EG and C-SSG levels require unanimous and active consent. Silence procedures will not apply.

### **Meetings**

410. WG meetings are to be held at each CMM and as otherwise required. Attendance at meetings will be a matter for each CLR, bearing in mind the need to maintain continuity in knowledge and expertise. From time-to-time the groups may wish to invite certain categories of participant (e.g., contractors and GMP representatives) to all or parts of a WG meeting. This is done by unanimous agreement by the CLRs prior to the meeting and be formalized through the C-EG.

411. CFBLNet Secretariat Support. The CFBLNet Secretariat will provide continuity to the WGs by being represented at WG meetings and through the management of all relevant documentation.

### **Subordinate/Ad Hoc Groups**

412. The C-EG may stand up any subordinate groups as required. Each WG may also create ad hoc sub-groups from time-to-time to address a specific subject related issue that demands a greater depth of examination and consideration than is possible using the entire parent WG. The formation or dissolution of a sub-working group is to be agreed with the unanimous consent of the CLRs, and is to be approved by the C-EG. The sub-group Chair will be selected at the time of approval.

### **Papers and Documentation**

413. A written record of each WG and subordinate group meeting is to be produced with all relevant materials attached. Out-of-committee work may be carried out through the production of discussion papers. From time to time written submissions may be made to the C-EG and/or the Secretariat in the form of reports, requests for guidance or ratification of papers.

414. All documentation in final form is to be distributed either directly to participants (copy to the Secretariat), or to the Secretariat for distribution. In such cases the distribution requirements will be clearly annotated on the document. As a general rule, all such documentation will be distributed to all CMPs. Documents in draft form may be exchanged directly between WG members.

415. Each WG Chair is to contribute relevant information to be included in the CFBLNet Annual Report and submit matters worthy of wide publication.

416. The WG Chairs are to apply their own judgement regarding promulgation of CFBLNet documents developed by their group. The document management procedure is covered in Annex G. Information management is described in the CFBLNet Information Management Guidance (Annex H).

**ANNEXES:**

- A. Terms of Reference**
- B. Initiative Processing**
- C. Security and Information Assurance Strategy**
- D. Network Operations**
- E. Site Processing**
- F. GMP Sponsorship Processing**
- G. Documentation Management**
- H. Information Management Guidance**
- I. Glossary of Terms**