



**CANADA**

# Canadian Forces

*Coalition Warrior Interoperability Demonstration provides a dynamic opportunity to evaluate new and emerging C4I technologies for use in the Canadian Forces and other Canadian Governmental Agencies, as well as develop solutions to Interoperability challenges nationally and with Canada's principal Allies.*

**C**WID tests interoperability of technologies that solve current or future operational needs at the multinational, joint or interagency level. It brings together 23 separate nations, including different military services and government agencies, on one experimentation network. The Demonstration allows military



**AIM**

The aim of the Canadian Forces (CF) in CWID 2005 is to enhance Canada's Interoperability within a Coalition and Domestic Operations environment.

operators and commanders first-hand experience with new capabilities and to measure effectiveness of selected technologies. If successful, technologies are rapidly transitioned into military service. Technologies are tested in CWID through Interoperability Trials (ITs) and examined against specific objectives.

A military scenario is utilised to provide warfighter context for the demonstration and a realistic evaluation of ITs. For CWID 2005, two scenarios were created that pertain to the Global War on Terrorism. One scenario is a traditional military expeditionary coalition in a fictional region overseas, while the second scenario focuses on Homeland Security within North America. For the military coalition scenario, Canada's focus is on a joint effort involving all three environmental elements as well as national command and control. The do-



**CANADIAN OBJECTIVES**

- Improve Mission Assurance
- Provide an enhanced Situational Awareness capability
- Facilitate information sharing across multiple information domains
- Enable collaborative planning across a bandwidth constrained operational environment
- Provide enhanced ISR dissemination
- Wireless security solutions
- Enhanced information sharing of logistics systems
- Enhanced language translation services
- Develop SOPs and TTPs in a Coalition Joint Force for emerging technology
- Conduct collaborative planning for execution of Coalition Joint and Domestic operations

**CANADIAN CWID SPONSOR**

The CF participation sponsor for CWID is the Deputy Chief of Defence Staff, who is supported by the Assistant Deputy Minister of Information Management

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**WEBSITES**

For more information on CF CWID, visit the following sites:

[www.cwid.js.mil](http://www.cwid.js.mil)  
Go to "Canada" under Allied Sites

CFEC INTERNET  
[www.ops.forces.gc.ca/units/cfec/default\\_e.asp](http://www.ops.forces.gc.ca/units/cfec/default_e.asp)

CFEC INTRANET  
[dcds.mil.ca/dgjfd/cfec/default\\_e.asp](http://dcds.mil.ca/dgjfd/cfec/default_e.asp)

COALITION PARTNERS

mestic and continental aspects of CWID 2005 have yielded strong interest from the Department of Public Safety and Emergency Preparedness Canada (PSEPC) and other government agencies sharing a common goal of Homeland Security and Defence. Specific details for each Canadian organization participating in CWID 2005 can be found in the pages that follow.



are located within Ottawa, Ontario, including the main site at the Canadian Forces Experimentation Centre, Shirleys Bay. The remaining sites are in Valcartier Quebec and Winnipeg Manitoba. Finally, Canada is participating in the

NATO CWID 2005 program with a team deployed to the NATO Main Site in Lillehammer Norway.

This ever-changing program continues to evolve with warfighter, national, and international interoperability challenges. This year's program continues an aggressive approach to combating these issues. Finally, increased participation by PSEPC adds an all-encompassing dimension to Canada's CWID involvement.



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For CWID 2005, Canada leads five ITs that place Canadian technology on the international stage. Canada will evaluate a further 12 ITs from the international community. Evaluation of ITs is conducted on an experimentation network linking 23 countries. Canada will have five national sites on the network. Three sites

**NATIONAL CWID 2005 SITES**

Canadian participation will involve activities within Canada, NATO, US, UK, AS, and NZ.

- The Main Site for Canadian CWID 2005 is located at Shirley's Bay, Ottawa Ontario.
- The Canadian Forces Experimentation Centre (CFEC), also located at Shirley's Bay, coordinates all experimentation and Interoperability Trials for Canada within the CWID program.

- Other Canadian Sites include Valcartier Quebec, Winnipeg Manitoba and three additional sites in the Ottawa area.

**PARTICIPATION AT COALITION SITES**

- Canada will deploy staff to the NATO-based Joint Task Force Headquarters in Lillehammer, Norway; the Air component sites at Hanscom AFB Massachusetts and Lillehammer Norway. Canada will host warfighters from the U.S., Australia and New Zealand at the CF Main Site in Ottawa.

**NATIONAL GOALS**

**AIR FORCE**

- Trial the capability of the Air Force Command and Control Information System (AFCCIS), Canadian ATO/ACO XML Interpreter (CAAT-XI) to import USAF TBMCS generated ATO/ACO messages and NATO ICC or ACCS converted Adat P-3 messages and display this data to the Warfighter in a "user-friendly" tabular, graphical format
- Evaluate the Collaborative Operations Planning System (COPlanS) ability to plan operations in a network environment, to support a planning team, and to manage, define, and analyze multiple courses of action in an automated process within a specific element (e.g. Air or Joint operations)
- Collaboration with the Canadian Land, Maritime, Joint Staff, and Coalition Forces for evaluation of "CAAT-XI" and "COPlanS"
- Conduct trials to exchange weather data across multi-level security domains (Unclassified and Classified) within AFCCIS specific applications
- Conduct Dynamic Scheduling Systems (DSS) trials to evaluate the capability of streamlining mission flow and generate/disseminate an optimized airlift schedule
- In cooperation with the CFCS and AFCCIS Projects,



evaluate deployed secure Interoperability and data exchange through the Public Switched Telephone Network (PSTN), by using the Remote Access Secure Protocol (RASP), and the AFFCIS Suite of Deployed Equipments at CFB Winnipeg, Ottawa Main Site, Hanscom AFB, and Camp Joerstadmoen Norway

- Evaluate the capability of "COP 21" to support the planning process by providing and managing relevant planning data, imagery, maps etc. from multiple sources
- Evaluate the Portable Flight Joint Mission Planning System (PFJMPS) capability to plan and deconflict multiple fighter routes between nations within a specific AOR
- Provide warfighters to the Canadian Main Site and deployed squadrons to represent virtual Air squadrons as part of the Canadian Air Component
- Evaluate multi-caveat data securing data protection technologies for the Air Force
- Conduct trials to assess secure links to unclassified terminals and workstations
- Assess unit scheduling and mission management tools

**DEFENCE RESEARCH AND DEVELOPMENT CANADA - VALCARTIER**

With engineering and technical support of Defence Research and Development Canada – Valcartier (DRDC-V) and the Capability Transition Group (CTG), the Air Force will support:

- Trial capability of the Air Force Command and Control Information System (AFCCIS), Canadian ATO/ACO XML Interpreter (CAAT-XI) to import USAF TBMCs generated ATO/ACO messages and NATO ICC and ACCS converted Adat P-3 messages and display it in a "user-friendly" format
- Evaluate the Collaborative Operations Planning System (COPlanS) ability to plan operations in a network environment, to support a planning team, and to manage, define, and analyze multiple courses of action in an automated process within a specific element (e.g. Air or Joint operations)
- Collaboration with the Canadian Land, Maritime, Joint Staff, and Coalition Forces for evaluation of "CAAT-XI" and "COPlanS"



**AIR FORCE – CANADIAN NATO CWID**

- Simulate the deployment of two squadrons to the NATO environment to trial the interoperability reach back capability to Canada through the NATO infrastructure at Camp Joerstadmoen, Norway using RASP and AFCCIS
- In addition to IT goals for the Air Force team in Canada (CAAT-XI, COPlanS), build on these from a NATO-

deployed concept at Camp Joersadmoen, and evaluate NATO CITs with participating NATO nations

- Evaluate CAAT-Xi within a NATO coalition

**CF COMMAND SYSTEM (CFCS) PROJECT ON "TITAN"**

- Interoperability testing with national/allied C2 systems including Web, Email, Directory, Collaboration
- Verification and validation of tools and techniques to generate and maintain Situational Awareness
- Verification and validation of tools as well as tactics, techniques and procedures for secure handling of information through lifecycle

**J2 INFORMATION MANAGEMENT**

- Coordinate trials and warfighter participation for the Joint Intelligence community
- Continue extensive interoperability with the Coalition G&I community, specifically NGA in the US, DSTO in Australia and DGIA in the UK
- Provide Request for Information (RFI) services to warfighters for managing intelligence requests in a federated environment



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**CANADIAN FORCES TRIAL PARTICIPATION**

INTEROPERABILITY TRIAL	TRIAL NAME (ACRONYM)	SECONDARY OBJECTIVE
<b>CANADIAN FORCES LED</b>		
<b>OBJECTIVE 2: Situational Awareness</b>		
02.30	Black Coral	4
02.34	Common Operating Picture Product Line (COP PL)	
<b>OBJECTIVE 4: Collaborative Information Environment</b>		
04.21	Collaborative Operations Planning System (COPlanS)	
<b>OBJECTIVE 5: ISR Dissemination</b>		
2005.19	Request for Information Services Interoperability (RFI SI)	
2005.24	Geospatial Intelligence Integration (GII)	
<b>CANADIAN FORCES PARTICIPATION</b>		
<b>OBJECTIVE 1: Mission Assurance</b>		
01.61	Marine Air Ground Task Force Continuity of Operations (MAGTF COOP)	
<b>OBJECTIVE 2: Situational Awareness</b>		
02.08	Weapons of Mass Destruction Common Operational Picture (WMD COP)	
02.09	Commercial Joint Mapping Toolkit (C/JMTK)	
02.33	Web Services for Coalition Interoperability (WSCl)	
02.42	Pliable Display Technology-Enabled User Interfaces for the Rapid Access Image Viewer and Mobile Access Image Viewer	4
02.84	Multi-Layer Display (MLD)	
<b>OBJECTIVE 3: Multi-Level/Multi-Domain Protection</b>		
03.13	Netscreen Security Products (Netscreen FW/VPN/IDP & NSM)	
03.39	Trusted Gateway (TG)	
<b>OBJECTIVE 4: Collaborative Information Environment</b>		
04.32	Federated Collaboration Information Environment (MS FCIE)	1
04.54	Joint Air Mission Services (JAMS)	
<b>OBJECTIVE 5: ISR Dissemination</b>		
05.44	Advanced Geospatial Imagery Library Enterprise (AGILE)	
<b>OBJECTIVE 6: Wireless Security</b>		
06.25	Wireless Wall (WWall)	

**NOTE:** Technical details all of Trials listed are contained at the back of this Guidebook



**PUBLIC SAFETY AND EMERGENCY PREPAREDNESS CANADA**

Public Safety and Emergency Preparedness Canada (PSEPC) fulfills the fundamental role of government to safeguard the public's safety and security. PSEPC provides policy leadership and delivers programs and services in the areas of:

- National security and emergency management
- Policing, law enforcement and borders
- Corrections and crime prevention

The Department also ensures policy cohesion among six agencies that report to the Minister of Public Safety and Emergency Preparedness:

- Royal Canadian Mounted Police (RCMP)
- Canadian Security Intelligence Service (CSIS)
- Canadian Border Services Agency (CBSA)
- Canadian Firearms Centre (CAFC)
- Correctional Service of Canada (CSC)
- National Parole Board (NPB)

**PSEPC CWID 2005 OBJECTIVES**

- Improve situational awareness
- Create a collaborative information environment
- Evaluate geospatial-Intelligence products

**PSEPC ROLE**

- Provide staff to the main Canadian Forces site, Shirley's Bay
- Increase awareness of coalition interoperability issues and emerging technologies in order to further develop the department's capabilities
- Evaluate geospatial-intelligence, situational awareness and collaborative information environment products for the department



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- Demonstrate real-time sharing of geospatial information in a collaborative space using Black Coral LIVE!
- Provide situational awareness to the warfighter using the Common Operational Picture Product Line by combining geospatial and tactical displays
- Evaluate the Cross-Border Infrastructure Plan for integrating geospatial intelligence information to support both the military warfighter and civilian agencies in Homeland Security and Homeland Defense

simulated C2 Centre for CWID 2005 and be exposed to emerging information technology in the CWID program

- Increase awareness of Coalition interoperability issues and emerging technology in order to further develop NDCC capabilities whilst providing feedback to technology stakeholders from a National C2 perspective



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**MAPPING AND CHARTING ESTABLISHMENT**



- Conduct geomatic analysis at the Canadian Main Site
- In conjunction with J2 IM, analyse the cross-border database between Canada and the U.S.

**CF JOINT IMAGERY CENTRE**

- Conduct imagery analysis at the Canadian Main Site

**NAVY**

- Provide warfighters to the Canadian Main Site to operate virtual Naval Task Group deployed in the scenario
- Deploy staff to integrate into the Maritime component



**CF JOINT OPERATIONS GROUP (CF JOG)**



- Provide warfighters and training staff at the Canadian Main Site to form the National Command Element (NCE) for the scenario based CF combatant forces
- Provide warfighters to augment the operational cell of the NATO Joint Task Force Headquarters (NATO JTFHQ) in Lillehammer, Norway for CWID 2005, including the role of COS in the NATO JTFHQ
- Increase awareness of Coalition and Joint interoperability issues and emerging technologies in order to develop CF JOG capabilities whilst providing feedback to trial sponsors from a warfighter perspective

**NATIONAL DEFENCE COMMAND CENTRE (NDCC)**

- Provide warfighters to the Canadian Main Site to form a

**J3 CONTINENTAL**

- Provide staff to the Canadian Main Site to simulate the link between Public Safety and Emergency Preparedness Canada and the Department of National Defence in the CWID 2005 domestic scenario

**JOINT INFORMATION AND INTELLIGENCE FUSION CAPABILITY**

- Support warfighters and command staff
- Explore new tools to further develop concepts for information and intelligence fusion

**CANADIAN FORCES EXPERIMENTATION CENTRE (CFEC)**

- Provide military personnel and Defence scientists at the Canadian Main Site to augment Joint and Tactical Operational Assessment Teams
- Coordinate the National Experimentation Campaign for CWID 2005
- Coordinate the Coalition Data Assessment Team
- Coordinate all Trial equipment, personnel, assessment, and reports
- Coordinate CFXNet connectivity for CWID sites, including trial engineer support, cryptography, and network security accreditation
- Collect and compile all CWID 2005 data to produce the final After Action Report
- Produce and distribute the executive summary of national and coalition achievements and "Lessons Learned" during execution
- Coordinate all VIP visits, media day, and Coalition staff in/out of Canada for CWID 2005

