Defence Acquisition Guide 2015

Foreword

The Honourable Jason Kenney | Minister of National Defence and Minister for Multiculturalism

A year after it was first introduced, we are pleased to present the updated 2015 edition of the Defence Acquisition Guide (DAG). This document is an important element of our effort to maintain a first-class, modern military that is well trained, equipped, and ready to face the challenges of the 21st century.

The DAG seeks to help Canadian industry position themselves to compete for potential future Canadian and international defence procurement opportunities. As the guide's intent is to anticipate the future equipment needs of the Canadian Armed Forces, most of the initiatives listed have yet to be presented to the government of Canada for approval and consequently are subject to being amended or deleted altogether.

This edition of the guide, which is a major component of the overall Defence Procurement Strategy, seeks to better align our commitment and dedication to Defence excellence with the need to deliver the right equipment and services for the Canadian Armed Forces. This refresh to the DAG introduces new initiatives, as well as highlights changes to existing initiatives. Over 60 per cent of the projects have been refreshed, and DAG 2015 has been expanded to include initiatives of greater interest to industry to increase engagement.

As with the initial version, which was released in June 2014, DAG 2015 remains a document that is constantly evolving in order to reflect the changing needs of the Canadian Armed Forces. It will continue to be refreshed annually, and will be more extensively updated every three years. The Department of National Defence remains committed to keeping the processes for procurement open and transparent, and continues to build and maintain strong relationships with industry. We remain open to any feedback on DAG 2015, and look forward to engaging with industry on important projects for the Canadian military as we improve the way we do business while delivering Defence Priorities – Operational Excellence, Defence Readiness, Strengthening the Defence Team and Defence Affordability.

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Executive Summary

The Defence Acquisition Guide (DAG) continues to provide greater transparency on the potential defence capability requirements of the Canadian Armed Forces over the next 20 years. DAG 2015 has been refreshed to include both new and ongoing initiatives, as well as has taken into account the feedback received from industry.

DAG 2015 is made up of 16 new initiatives. 60 percent of the overall initiatives in DAG 2014 required minor updates, and 28 of the initiatives that were in DAG 2014 have now been archived. The reasons for archiving initiatives range from an initiative no longer being competitive, having been merged with other initiatives, or its existing capabilities being managed through non-competitive processes. DAG 2014 will remain available for reference; however it is important to note that it is now an archived document. Any initiatives that have been added or changed are reflected in DAG 2015.

A significant addition to DAG 2015 is the Canadian Special Operations Force Command (CANSOFCOM) Capability Portfolios. Canadian Special Operations Forces (CANSOF) usually procures equipment and services through minor projects, and such projects are below the thresholds established for inclusion in the DAG. In the effort to further effective engagement between Industry and CANSOFCOM for initiatives outside of the normal DAG parameters, DAG 2015 now has a dedicated webpage that describes CANSOF “Areas of Interest” (or Capability Portfolios) and a description of specific capabilities requirements. This has been added in order to provide industry with a conduit through which a spectrum of capabilities could be discussed with a view to inform minor projects.

New Initiatives

1. Automatic Identification Technology
2. Consolidated Clothing Contract
3. Data management services for Synthetic Aperture Radar (SAR) and Automatic Identification Services (AIS) data
4. Data-Centric Security Service
5. Human Factors Engineering (HFE) Support to Canadian Soldier Systems
6. Improved Trail Snowshoe
7. Meridian Standard
8. Multi-Band Radio Crypto Modernization
9. Professional Support for Tactical Edge Cyber Command and Control (TEC3)
10. Sea King T58 Engine Contract
11. Signature Collection and Management Equipment
12. SONOBUOYs AN/SSQ 62E DICASS Contract
13. System of Training and Operational Readiness Modernization
14. Test, Analysis and Development Services in the Field of Injury, Biokinetics, Small Arms Effects and Personal Protection
15. Tactical Power System
16. Torpedo Countermeasure Hard Kill

Archived Proposals

1. Ammunition Safety And Suitability For Service Testing Capability
2. Canadian Moored Afloat Laboratory
3. CF-188 Defensive Electronic Warfare Suite
4. CF-188 Follow-on Operation Flight Program
5. CG634 Gen II Helmet Contract

6. Construction and Road Maintenance
7. Defence Cryptographic Modernization Project Identification Friend or Foe Sub-Project
8. Deployable Firefighting Capability
9. Deployable Operational Level Bulk Fuel Storage and Petroleum Quality Surveillance/Assurance
10. Enhanced High Readiness
11. Fixed-Wing Search and Rescue
12. Information Technology Service Management Project
13. Joint Deployable Detained Persons Holding Facility
14. Joint Deployable Potable Water Production and Distribution
15. Joint Heavy Engineering Equipment
16. Joint Materiel Handling Equipment
17. Joint Special Purpose Heavy Lift
18. Line of Communication Bridging Operations
19. New Canadian Ranger Rifle
20. North Warning System Operations and Maintenance Contract
21. Point Defence Missile System Upgrade
22. Polar Epsilon 2
23. Quarry Operations
24. Runway Repair
25. Sleeping Bag System Contract
26. Smart Energy and Power Management
27. Solid Waste Management in Operations
28. Waste Water Management

Introduction

The DAG is a key component of the Government of Canada's Defence Procurement Strategy and is designed to provide greater transparency on potential defence capability requirements of the Canadian Armed Forces over the next 20 years. The DAG will enable Canadian industry and potential bidders/suppliers to make informed research and development investments and strategic partnering decisions based on these anticipated needs.

The DAG will ensure that industry and potential bidders are aware of the Department's longer-term defence capability requirement areas. However, as a practical limitation of the DAG, it must be recognized that beyond a 5-year period, there is less certainty and hence, capability requirements are less defined. The majority of the projects in this publication do not have formal authority from the Government and remain subject to change in terms of scope, cost and schedule including termination without any further explanation or liability. Initiatives where the Request for Proposal has been issued and the process is complete, are not included in this document. The DAG will be updated with new projects/proposals annually. At the same time, some capabilities which may be determined not to fit the Canadian Armed Forces strategic needs could be removed in future releases of the DAG. In this regard, the document will also be substantially refreshed every three years to remain relevant as strategic circumstances evolve, new technologies emerge and priorities are adjusted to reflect the changing needs of the Government of Canada and the Canadian Armed Forces.

The DAG begins with a synopsis of the Canada First Defence Strategy (CFDS) which provides the context and strategic direction that orients future Defence planning. An overview of capability based planning is then provided to explain the methodology the Canadian Armed Forces uses to determine its capability requirements. To ensure industry is well aware of the various stages through which the

Department of National Defence projects must transit, an overview of its project approval process has also been included.

The potential capability requirements and associated procurements that follow are arranged into five groups and organized by expected delivery dates and value. Related details include the objective of the project or service, and a preliminary estimated cost of acquisition for each project. It should be noted that the cost estimates are of a Rough Order of Magnitude (ROM) and therefore there is potential for large variability between the cost estimates and the actual costs. Each proposal summary provides an anticipated timeline of key milestones. This includes an indication of when the project will be reviewed by Government for expenditure authority (implementation approval) and when the Request for Proposal (RFP) could be released. A point of contact is also provided. Notably, longer term projects provide less detail as requirements, costs, schedule and risk are not yet well defined.

Canada First Defence Strategy (CFDS)

Released in 2008, the Canada First Defence Strategy is the Government of Canada's foundational defence policy statement. The Strategy launched a new era of investment in the Canadian Armed Forces, providing the tools necessary to rebuild the Forces into a first-class, modern military. This strong investment – along with the dedication of our personnel – has and will continue to enable the Canadian Armed Forces to deliver impressive operational results, both at home and abroad.

The Strategy confirms three enduring roles for the Canadian Armed Forces: excellence in the defence of Canada, strong and reliable partnership with the United States in the defence of North America, and leadership abroad through meaningful contributions to international peace and security. Within these three roles, the Strategy outlines six core missions that the Canadian Armed Forces must be ready to conduct, potentially at the same time:

- Conducting daily domestic and continental operations;
- Supporting a major international event in Canada;
- Responding to a terrorist attack;
- Supporting civil authorities during a crisis;
- Conducting a major international operation for an extended period; and
- Responding to crises elsewhere in the world for a shorter period.

The *Canada First* Defence Strategy also highlights the importance of establishing a new relationship with Canadian industry, partnering to deliver core equipment to the military while offering maximum benefit to the Canadian economy. This DAG, as part of the Defence Procurement Strategy, increases transparency and facilitates engagement with industry, helping to bring this vision to fruition.

As part of a comprehensive modernization plan, the Strategy announced several major equipment recapitalization projects that would be required over the ensuing 10 to 20 years. These projects, currently in various phases of development, remain of highest priority and represent considerable opportunity for Canadian industry involvement.

Capability Based Planning

In order to meet Government expectation as articulated in the Canada First Defence Strategy, the Canadian Armed Forces needs to continue to adapt to a dynamic and uncertain environment and to acquire and maintain an appropriate range of capabilities. The Department of National Defence employs capability based planning to analyse, assess and integrate future capability requirements in order to be prepared for success in the future operating environment.

Capability based planning is ultimately about establishing context and choice with respect to long-term strategic investment decisions as it provides the analysis and logic necessary to assess and identify future capability requirements. The capability based planning process is a three year cycle, divided into three main phases in order to answer three simple questions: what do we think we will need to do, how well do we think we can do it now, and what do we need to change to perform better. Capability based planning is a process and a systems-based strategic planning tool that takes a broad look across the entire strategic Canadian Armed Forces capability portfolio, defines possible future requirements based on trends and assesses what capability areas may be considered for investment, divestment or sustainment decisions. The identified investment areas are then subject to a rigorous analysis and screened for a list of capability options. This marks the identification of a capability gap or military requirement into the Department of National Defence's project approval process.

Project Approval Process

The project approval process provides a methodology for reviewing potential investments. Once identified as potential investments, the process allows the Department of National Defence to further investigate strategic requirements and options. Potential investments are further assessed to ensure the best balance of capability investment within the available fiscal envelope. Investments that progress through to Definition and Implementation are those that offer the best cost-capability benefit.

There is no mandated timeline for progression through the various stages of the project approval process. Investments vary greatly in complexity, capability requirement timeline and cost-capability benefit. As such, the focus is not on progressing investments to a fixed timeline for each stage, but rather on ensuring progression based on thorough assessment and cost-capability benefit.

Yearly updates to the Defence Acquisition Guide will allow industry to track the progress of projects through the various stages of the Project Approval Process. In addition, the Defence Procurement Strategy mandates that the Department of National Defence seek early and continuous industry engagement. In practice, this will result in industry consultation as early as the Identification stage.

In accordance with Treasury Board Policy on the Management of Projects, the Department of National Defence project approval process is summarized as follows:

- **Stage 1** - Project Identification. This stage includes an investment proposal based on an identified capability deficiency or gap, in which the desired outcome, strategic fit and results of the preliminary options analysis are established for entry into the Defence Services Program.
- **Stage 2** - Options Analysis. Analyse options to determine the optimal method to fill the capability gap. Department of National Defence Senior Leadership will determine the option to proceed with based on the project business case analysis.
- **Stage 3** - Definition. This marks the transition from determining what should be done to mitigate a deficiency, to determining how the preferred option will be implemented. This work includes standing up a dedicated project management team, determining substantive requirement, cost

and schedule estimates and investigating and mitigating risk. Funding is assigned for final consultations with industry and placement of an RFP.

- **Stage 4** - Implementation. Implementation approval enables the Department of National Defence to have the contract awarded through Public Works and Government Services Canada. Stage 5 - Close-Out. When a project reaches its full operational capability, it becomes a managed capability and no longer a project. The project approving authority will receive a final report during the Close-Out of each project.

Conclusion

The DAG is designed to assist industry by providing the Department of National Defence's procurement intentions for the future. In our commitment to maintain early and continuous engagement with industry, feedback is encouraged and welcomed on this product to improve future editions. Subject to Government of Canada expenditure authority, the DAG provides context on potential Department capability initiatives and provides greater transparency concerning possible areas of investment by the Government of Canada. With this information, companies should be better positioned to take advantage of, and have an opportunity to comment on these potential investments well before they reach maturity. However, industry must be cognizant of the fact that beyond a 5-year period, projects remain less well defined. Also, the majority of the projects listed in this publication do not have formal authority from the Government and they remain subject to change in terms of scope, cost and schedule and may be terminated without any further explanation or liability. Initiatives where the Request for Proposal has been issued and the process is complete are not included in this document. In addition, more information regarding Government of Canada Tenders can be found at the Government of Canada web site https://buyandsell.gc.ca/procurement-data/tenders. Please click on the email link below to provide your recommendations for the improvement of the DAG.
DAG_Force_development-GAD_Force_des_development@forces.gc.ca

How to use/read the Proposals

Title of initiative: New system, Replacing System, In Service Support, or Services

Objective. Short description in broad terms of initiative.

Requirements. Defence capability is developed and refined over time and details provided on proposals in the DAG should be useful for planning, but industry should consult closely with individual directorates for specific and updated information.

Preliminary Cost Estimate Bracket. The Bracket System (Acquisition Cost Only for Projects and Projected Value of Support Contracts) and the level of confidence in our project cost estimates are based upon where the initiative is in the project approval process. The Bracket system is representative of a costing range that will provide Industry an indication of the potential value of an initiative.

- Under $20 million
- $20 million to $49 million
- $50 million to $99 million
- $100 million to $249 million
- $250 million to $499 million
- $500 million to $1.5 billion
- More than $1.5 billion

Anticipated Timeline. Will identify the following milestones: Option Analysis, Definition Approval, Request for Proposal Release, Implementation Approval, Contract Award, Final Delivery. The dates will be identified as follows:

- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021
- 2022
- 2023
- 2024
- 2025
- 2026 to 2035
- 2035+

Point of Contact. Will identify a point of contact where questions relating to that specific initiative may be directed.

PLEASE NOTE:

The information on the following pages are provided for advisory purposes only and are current as of the date of publication. The information is, however, subject to change without notice and no commitment regarding its future accuracy or content, or any subsequent implementation of the Project described, is made by DND or the Government of Canada. Any expense incurred by any person or entity in reliance upon the information provided is at the sole risk of that person or entity. It is important to note that these contact details are provided for use by interested industry partners only. Please direct all media enquiries to the department of National Defence's Media Relations Office at 1-866-377-0811
http://www.forces.gc.ca/en/business-defence-acquisition-guide/index.page

NAVAL SYSTEMS – ARCHIVED – Artic/Offshore Patrol Ship

This content is archived because Request for Proposals has been released or Contract Awarded.

New Systems

Objective

To provide the Canadian Armed Forces (CAF) with the capability to operate in all of Canada's waters, including Canada's Arctic waters, throughout the navigable season. The acquisition of the Arctic/Offshore Patrol Ship (AOPS) will increase the CAF's capacity to defend Canada and its security, including in the Arctic.

Requirements

AOPS will be an ice-capable ship, with icebreaking characteristics to allow for year-round operations in up to and including one metre of first-year ice of high ice concentrations which may include old ice inclusions. It will also possess sea-keeping qualities to allow operations in the open ocean. AOPS will be fitted with gun systems appropriate for use in domestic constabulary roles and force protection, and designed to operate effectively in the anticipated extreme climates. AOPS crew will be up to 65 personnel, with accommodation in the ship for an additional 20 mission personnel who will be embarked as required for more complex taskings including those in support of other Government departments. It will be capable of a maximum sustained speed of at least 17 kts, with a range of more than 6800 nautical miles. It is capable of autonomous operations for up to 4 months. AOPS has been designed to operate and hangar an organic aircraft. While it is anticipated that it will most frequently embark smaller utility helicopters, it will have sufficient capabilities to provide limited support to CH 148 Cyclone operations. AOPS will operate an assortment of boats and crafts to provide rescue, humanitarian, mission, and limited sealift capabilities. The ship is designed with enclosed and open storage facilities to accommodate an array of stores, including 20-ft ISO containers and utility vehicles. It is capable of loading and offloading these cargos in various locations, such as jetties, landing craft, as well as onto the ice.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2018
  - First Ship Delivery
- 2022
  - Final Delivery
- 2021 to 2025
  - Project Close-Out

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Canadian Surface Combatant

Replace Existing Systems

Objective

To replace the existing major warships of the Royal Canadian Navy through the procurement of new ships in two variants; the Area Air Defence and Task Group Command and Control (AAD/TG C2) variant and a General Purpose (GP) variant. These ships will optimize commonality of systems and design and will be built in Canada. These variants could be fitted with different weapons, communications, surveillance and other systems so as to ensure that the military can continue to monitor and defend Canadian waters and make significant contributions to international naval operations.

Requirements

The Canadian Surface Combatant will be capable of defending Canadian interests in national and international waters. To do this, the ship must have the ability to transit and operate in traditional blue water (open oceans) environments while remaining versatile enough to support operations in and around the increasingly important, complex and challenging littoral environment. To this end, and while fulfilling the same roles as the Iroquois and Halifax Class ships, the Canadian Surface Combatant Project is seeking enhanced capabilities to support operations ashore. The first variant of the Canadian Surface Combatant will possess the modern Area Air Defence and Task Group Command and Control capabilities that will enable the Government to continue to deploy Canadian Naval Task Groups worldwide in satisfaction of national defence and security objectives. The second variant, a General Purpose variant, will be an equally essential element in supporting a Canadian Naval Task Group, or in operating independently in deployed operations. Together, these two variants will permit interoperability with allies in international operations and with Canadian Other Government Departments in continental and domestic defence and marine security operations across the spectrum of warfare. The ships will be capable of housing and operating the CH 148 Cyclone Maritime Helicopters as well as a wide variety of small boats and unmanned vehicles (air, surface and underwater).

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2015 to 2016
    - Request for Proposal Release
- 2018 to 2020
    - Implementation Approval
    - Contract Award
- 2036+
    - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Canadian Underwater Minewarfare Apparatus

Replace Existing Systems

Objective

To maintain seabed intervention capability, through the provision of self-contained Naval Mine Countermeasures diving.

Requirements

The replacement Canadian Underwater Mine Warfare Apparatus (CUMA) system will provide the RCN with the capability to investigate underwater contacts to a depth of 81 Meters for 20 minutes (time on task) without incurring decompression stops. The system will use a mixture of 3 different breathing gasses – TRIMIX, instead of the current Helium, Oxygen mix (HELIOX). The re-breather will feature an emergency Bail-out System, Auxiliary Gas Supply and communication and tracking system will be incorporated into the Canadian Underwater Minewarfare Apparatus.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2017
  - Definition Approval
- 2019
  - Implementation Approval
  - Request for Proposal Release
- 2020
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Joint Support Ship

New and Replace Existing Systems

Objective

To replace the Royal Canadian Navy's current Auxiliary Oiler Replenishment vessels that have reached the end of their service lives as announced on 19 September 2014. It will provide Canada with a modern, task tailored, globally deployable, naval support capability. The Joint Support Ship project will address the essential requirement to maintain the fleet and helicopter support capability and will provide enhancements to joint capabilities. The Project will deliver two JSS with option for a third ship.

Requirements

The Joint Support Ship will provide at-sea support to a deployed Canadian Naval Task Group, limited sealift and support to operations ashore. In June 2013, Canada selected the German Berlin Class design as the basis for the Joint Support Ship. The Joint Support Ship's capabilities will underpin Canada's ability to deploy and sustain Canada's naval forces worldwide for extended periods. The JSS will have a crew of up to 199 personnel plus its air detachment and mission personnel for a total of 239 onboard accommodations. The JSS will be capable of 20+ kts, with a range of 10800 nautical miles with ice edge capability to access Nanisivik Naval Facility in the summer navigation season. Its two dual-purpose RAS stations will provide 29 days support to a Canadian Naval Task Group for both fuel and supplies. The JSS will carry two organic CH 148 Cyclone maritime helicopters and will also provide second level maintenance capabilities for the Naval Task Group's helicopters. It will be fitted with self-protection systems such as Degaussing, NIXIE torpedo decoy, Chemical Biological Radiological Nuclear, Close-In Weapons Systems, Electronic Support Measures and Naval Remote Weapons System. The JSS medical facilities will include a NATO Role 2E capabilities to support an array of operations including humanitarian assistance and disaster relief. The JSS basic Command, Control, Communications, Computer and Intelligence systems will contribute to the maritime domain awareness. The Joint Support Ship will also have robust cargo transfer systems for mission payloads to include cranes and Landing Craft, Vehicle, Personnel.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2016
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2020
    - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Lightweight Torpedo Upgrade

Replace Existing Systems

Objective

To upgrade the Canadian MK 46 Mod 5A (Shallow Water) Lightweight Torpedo to improve fleet survivability against evolving near and medium-term underwater threats.

Requirements

The upgraded Lightweight Torpedo shall be capable of unrestricted employment in oceanic, shelf and littoral maritime environments, in water temperatures and salinity worldwide (across the range of polar, temperate and equatorial latitudes) as well in various sea states and water depths. The upgraded Lightweight Torpedo shall deliver effective performance in northern and Arctic waters, where the presence of sea ice, either in pack or broken form, is routinely expected. It shall be capable of attacking and destroying submarine contacts operating at the ice-edge. The upgraded Lightweight Torpedo shall be able to operate effectively and with relative impunity in an operational environment characterized by the presence of modern Self Protective Measures.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2017
    - Options Analysis
- 2020
    - Definition Approval
- 2021 to 2025
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2026 to 2035
    - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Maritime Next Generation Communications Suite

Replace Existing Systems

Objective

To provide the Halifax Class frigates with the next generation of Software Definable Radios capable of supporting modern information exchange requirements.

Requirements

This project will provide HMC ships with the next generation of Software Definable Radio equipment to support current and future Information Exchange Requirements for Line of Sight and Beyond Line of Sight ranges without the necessity of a satellite connection. The new equipment will be required to conform to the size, weight, power and heat constraints of the radio equipment rooms. The new equipment will be capable of supporting software waveforms compliant with legacy communications standards currently in use (such as radio teletype) as well as current/future standards such as Automatic Link Establishment and High Frequency IP.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2021 to 2025
    - Options Analysis
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Maritime Satellite Communications Upgrade

New and Replace Existing Systems

Objective

To provide a satellite communications (SATCOM) fit to Halifax, Kingston and Queenston Class ships that will meet class-specific Information Exchange Requirements (IERs), with an initial look to the year 2020, as well as meet interoperability requirements of the Canadian Armed Forces (CAF) and Allies.

Requirements

The Maritime Satellite Communications Upgrade (MSCU) Project will contribute to providing wideband SATCOM operational capability to RCN warships as the current SATCOM services can no longer meet the RCN's IERs. Therefore, MSCU will transition the RCN from a single-source, non-assured access, commercial satellite service to a combination of assured government owned and operated satellite services, with commercial alternatives. The proposed satellite communications equipment will ensure secure satellite communications connectivity well into the future and will represent a necessary improvement over the current fit.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
    - Contract Award
- 2018
    - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Maritime Tactical Command and Control

Replace Existing Systems

Objective

To upgrade the tactical Command and Control system for HMC Ships and Submarines and replace the Global Command and Control System Maritime V4.0.3.

Requirements

Maritime Tactical Command and Control (MTC2) will provide software to perform maritime tactical Command and Control amongst Canadian naval platforms and between platforms and their superior and subordinate Commanders and interchange C2 information seamlessly with allied navies of the United States, Britain, Australia and New Zealand. MTC2 will provide necessary hardware upgrades to the Naval Information Systems (NAVIS) to support the new software demands.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2019
  - Definition Approval
- 2021
  - Implementation Approval
  - Request for Proposal Release
- 2022
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Multi Role Boat

xxx Systems

Objective

To deliver a modern ship's boat system, replacing obsolete boats and the launch and recovery system used on the 12 Halifax Class frigates. The project will deliver an increased capability providing more capable ship's boats and higher capacity multi-functional launch and recovery systems. The system will also include features to improve the personnel safety during boat tasks and operations.

Requirements

The new system will be required to perform all ship's boat missions and tasks which include boarding operations, support to humanitarian and disaster relief operations, over-the-horizon operations in all conditions of visibility in up to sea state 5, surveillance, general transportation of personnel and cargo and support to diving operations. Boat improvements will include increased speed, dual engines, shock mounted seating for 12 personnel, larger load capability and electronics upgrades (communications, navigation and sensors). The boat will be the nine-meter class rigid-hull inflatable boat. The launch and recovery system will have a minimum lifting capacity of 15,500 pounds. It will also serve as the cargo handling system. Not only will it be capable of launching and recovering a fully loaded boat with personnel (12), it will also be capable of handling other Department of National Defence and Other Government Departments' boats of similar size and unmanned vehicles. The launch and recovery systems will be articulated cranes positioned on both sides of the ship – midships. Specific system quantities and configurations will be known once options analysis has been completed.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2016
  - Definition Approval
  - Request for Proposal Release
- 2017
  - Implementation Approval
  - Contract Award
- 2020
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Naval Electronic Attack Recapitalization (Onboard)

Replace Existing Systems

Objective

To provide Electronic Counter Measures (ECM) self-defence to the Halifax Class frigate from target designation and missile lock. The capability currently resident in the Reprogrammable Advanced Multimode Shipborne ECM System (RAMSES), designated the AN/SLQ-503, needs to be upgraded or replaced.

Requirements

The project will provide a capability that is part of ships' layered defence doctrine used by NATO nations to enhance effectiveness in anti-ship missile defence. The new system will be integrated with the Halifax Class Combat Management System and must meet Canadian Security Establishment protocols. High level requirements are considered classified; however, reliance on the use of tactical libraries should be limited and be adaptable to rapidly evolving threats.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2019
  - Options Analysis
- 2021
  - Definition Approval
- 2022
  - Implementation Approval
  - Request for Proposal Release
- 2023
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Naval Electronic Warfare System Sub Surface

Replace Existing Systems

Objective

To upgrade the existing Electronic Intelligence (ELINT) and Electronic Support Measures (ESM) system in Victoria Class submarines to provide signals intelligence and early warning of threat emitters to the submerged submarine.

Requirements

The project will optimize Victoria Class submarines' existing systems and sub-systems until end-of-life. This will include removal of the Seasearch II and replace it with a modern system. The project will provide time-critical, tactically relevant warning of threat emissions by early detection and classification that will contribute to early Indications and Warning of surface vessels. The project will also provide interception, identification, platform correlation, analysis and direction finding of electronic emissions so as to provide the maximum effectiveness in ELINT/ESM surveillance. The project solution will be integrated into a single operator workstation.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2019
  - Options Analysis
- 2021
  - Definition Approval
- 2022
  - Implementation Approval
  - Request for Proposal Release
- 2023
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Naval Electronic Warfare System Surface

Replace Existing Systems

Objective

To upgrade the existing Electronic Intelligence (ELINT) and Electronic Support Measures (ESM) system in the Halifax Class frigates to provide signals intelligence and early warning of threat emitters to the ship.

Requirements

The project will optimize Halifax Class frigates' existing systems and sub-systems until end-of-life. This will include removal of the Seasearch I and replace it with a modern system. The project will provide time-critical, tactically relevant warning of threat emissions by early detection and classification that will contribute to early Indications and Warning of surface vessels. The project will also provide interception, identification, platform correlation, analysis and direction finding of electronic emissions so as to provide the maximum effectiveness in ELINT/ESM surveillance. The project solution will be integrated into a single operator workstation.

Preliminary Estimate

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Anticipated Timeline

- 2019
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  - Implementation Approval
  - Request for Proposal Release
- 2023
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Naval Large Tug

Replace Existing Systems

Objective

To provide sufficient large tug capability to the Queen's Harbour Masters in HMC Dockyards Halifax and Esquimalt to support naval operations over a 25-year horizon.

Requirements

This project will provide four new Near Coastal Voyage Class 2 tugs built in Canada to a proven, in-service Commercial off the Shelf design. The tugs will have a minimum of a 25-year life expectancy on entering naval service. They will meet Transport Canada standards and Classification Society certification requirements. The tugs shall operate throughout the year in the wind, wave, tide and current conditions found in Canadian coastal waters. The tugs shall be capable of operating throughout a 24 hour day, in both unrestricted and restricted visibility as defined by the Convention on the International Regulations for Preventing Collisions at Sea. In Halifax and Esquimalt harbours, they will perform harbour tasks in sustained winds of 25 kts from any direction and in currents of up to 2 knots in any direction. The tugs will operate within 750 nautical miles of their respective home ports and conduct both in-harbour and out-of-harbour operations. The tugs will be equipped to provide an afloat Fire-Fighting capability.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2016
  - Definition Approval
  - Request for Proposal Release
- 2017
  - Implementation Approval
- 2019
  - Contract Award
- 2023
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Naval Mine Countermeasures Unmanned Surface Vehicle

New Systems

Objective

To develop a remote controlled/autonomous Naval Mine Countermeasures Unmanned Surface Vehicle (NMCM USV) capability to reduce the risk to ships, submarines and personnel from the threat of sea mines. The NMCM USV will search for, detect, classify, identify, and dispose of modern sea mines and Underwater Improvised Explosive Devices (UIEDs) from a stand-off surface platform.

Requirements

The NMCM USV capability will be delivered in the form of a modular system that can be operated from any suitable seagoing platform or from a shore facility. The NMCM USV will be a combat system intended for operation in a sea mine threat area and will be fully capable of operating in littoral waters, with expected air/water temperatures and salinity ranging from polar (ice free) through temperate to equatorial latitudes to depths from 10 to 200 meters.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2018
  - Definition Approval
- 2020
  - Implementation Approval
  - Request for Proposal Release
- 2021
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Naval Minewarfare Countermeasures Support Craft

New Systems

Objective

To acquire a Rigid-hull Inflatable Boat (RIB) with the capability to transport and deploy Naval Mine Countermeasures (NMCM) systems, Clearance Divers and Unmanned Underwater Vehicles (UUVs).

Requirements

The Naval Mine Countermeasures Support Craft (NMCSC) project will deliver deployable RIBs equipped to carry a Clearance Diving Team and/or deploy NMCM UUVs with sensor packages and disposal systems, and to operate outside of visual range of any supporting platform/unit. The project will also address spares, training and Technical Data Package. The NMCSC will be a combat system intended for operation in a sea mine threat area. The NMCSC will be fully capable of operation in littoral waters, with expected air/water temperatures and salinity ranging from polar through temperate to equatorial latitudes at depths from 10 to 200 meters.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2018
    - Options Analysis
- 2020
    - Definition Approval
- 2021 to 2025
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Naval Remote Weapon Station

New Systems

Objective

To deliver Naval Remote Weapon Stations (NRWS) comprised of remote control stabilized directors and operator consoles. The remote weapon stations will incorporate the 0.50 caliber Heavy Machine Guns (HMG) and 7.62mm machine guns currently in service.

Requirements

The NRWS will provide stabilization and electro-optical fire control support to the HMG. The mount director will include electro-optic/infra-red, laser range finding, and automatic target tracking for detection, tracking and weapons directing that will greatly enhance current self-defence capabilities. The NRWS will observe targets under the following maritime conditions: day or night, rain, snow, smoke, dust/sand, haze, fog and sea/air temperature conditions that affect visibility. The NRWS system will be capable of year-round operations in a marine environment up to and including Sea State 5. The NRWS will be capable of operating or remaining in continuous standby for immediate operation for up to ninety (90) days whether the ship is underway or alongside at home or in a foreign port.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
    - Request for Proposal Release
- 2016
    - Contract Award
- 2021 to 2025
    - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - ARCHIVED - Point Defence Missile System Upgrade

This content is archived because Request for Proposals has been released or Contract Awarded.

Replace Existing Systems

Objective

To ensure the continued self-defence capability of the Halifax Class frigate against an anti-ship missile attack launched from surface, sub-surface, air and land-based delivery systems, as well as other applicable threats, by replacing the point defence missile system component of the Halifax Class layered defence capability.

Requirements

This project will provide a replacement missile system, capable of countering evolving near and medium term threats, that will remain capable and sustainable beyond 2030. It will also be capable of engaging surface craft and low velocity aircraft. The upgraded missile system will be capable of sustained operations onboard the modernized Halifax Class across the spectrum of the ships' expected operating environments ranging from the Arctic to tropical. The upgraded system will not exceed the space and weight allocation of the current system and be fully capable of integration into the modernized Halifax Class combat management system using the existing sensors.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2014 update
    - Definition Approval
- 2017
    - Request for Proposal Release
- 2019
    - Implementation Approval
- 2021 to 2025
    - Contract Award
    - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
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NAVAL SYSTEMS - RCN Intelligence Surveillance Tracking Acquisition and Reconnaissance Programme

New Systems

Objective

To provide a Maritime Intelligence Surveillance Tracking Acquisition and Reconnaissance (ISTAR) initiative composed of two integrated parts: a Tactical Common Data Link (TCDL) and a shipborne tactical Unmanned Aircraft System (UAS).

Requirements

Each capability requirement of the RCN ISTAR Programme requires integration with the RCN's major warships systems and with each other –TCDL and UAS. The TCDL capability will commence with a Developmental Evaluation (DEVAL) to assess future ship-borne requirements. The DEVAL will determine the effectiveness of exchanging TCDL information with existing Royal Canadian Air Force, Canadian Army, and coalition partners. The evaluation will analyze equipment using existing STANAG 7085 compliant format and will determine if the equipment is suitably robust to operate in a naval environment. Information from the DEVAL will be leveraged to provide a TCDL capability for the major warships. The shipborne tactical UAS capability will provide an integrated Command and Control and data exchange with unmanned surface, air, and subsurface vehicles; an integrated UAS launch/recovery system; and a maintenance/storage workshop into the Halifax Class and future platforms. Where possible, the RCN capability will share common components with the CA's tactical UAS requirements.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Request for Proposal Release
- 2020
  - Implementation Approval
- 2021
  - Contract Award
- 2021 to 2025
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - StrongBow

Replace Existing Systems

Objective

To provide tactical radio direction finding and signals collection, analysis, fusion and exploitation strategic capability to the Halifax Class frigates.

Requirements

This is a joint Canadian Armed Forces project that will standardize and replace the currently used mission-fit of Cryptologic Direct Support Element equipment suite. The new capability will provide time-critical, tactically relevant warning of threat emissions in the Communications Intercept and Electronic Intelligence spectrums. In addition, it must replace the obsolete AN/SRD-504. Mast space and weight allocation for the antenna will not exceed that currently apportioned to AN/SRD-504 on board Halifax Class frigates.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2019
  - Definition Approval
- 2020
  - Implementation Approval
  - Request for Proposal Release
- 2021
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Submarine Equipment Life Extension

Replace Existing Systems

Objective

To act as a capability sustainment and enhancement project designed to extend the service life of the Victoria Class submarine beyond its current mid-2020s end of life.

Requirements

Re-activation of the Upholder Class submarines (renamed Victoria Class), as part of the Submarine Capability Life Extension Project, included a reassessment of their in-service life expectancy that resulted in a predicted end-of-service in the mid-2020s. The Submarine Equipment Life Extension (SELEX) Project will maintain the safety and serviceability of the "Float" components of the Victoria Class. It will maintain and, where appropriate, improve operational capabilities in both the "Move" and “Fight” components of the Victoria Class. A detailed scoping study has been completed and the recommendations of that activity will be used to define the exact scope of the SELEX Project.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2015
  - Options Analysis
- 2019
  - Definition Approval
- 2020
  - Request for Proposal Release
- 2020 to 2026
  - Implementation Approval
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Surface Supplied Diving

Replace Existing Systems

Objective

To maintain a Surface Supplied Diving (SSD) capability to 100 meters depth in coastal waters in the normal prevailing conditions in the Canadian oceanic littorals.

Requirements

This project will satisfy four main capabilities: SSD, Mine Countermeasures diving support, Search and Rescue and light salvage support. This capability must include the ability to deploy divers, as well as account for all of the essential logistical support elements of the diving systems, such as a recompression chamber, to effectively and safely execute the diving tasks.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2019
  - Definition Approval
- 2021
  - Implementation Approval
  - Request for Proposal Release
- 2022
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - *NEW* System of Training and Operational Readiness Modernization

New Systems

Objective

To support Naval Training System Transformation and Fleet Synthetic Training requirements by modernizing the RCN's system of training to ensure optimal use of methodologies, technologies and infrastructures to meet requirements in the most cost effective manner.

Requirements

The project will deliver and modify training technologies to assist with the material implementation of a holistic Naval Training Strategy that aims to modernize training management, development and delivery. Training effectiveness in support of operational readiness is to be ensured while minimizing overall training costs. This will be achieved by modernizing and consolidating training technologies, increasing coordination of ashore and fleet training systems and implementing sustainment strategies that ensure the training capabilities delivered evolve to maintain effectiveness and affordability over time.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2018
  - Definition Approval
- 2020
  - Implementation Approval
- 2021
  - Request for Proposal Release
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - *NEW* Torpedo Countermeasure Hard Kill

New Systems

Objective

To provide RCN frigates, support ships and submarines with an effective defensive capability against the full range of modern and emerging threat torpedoes by adding a hard kill anti-torpedo weapon to compliment shipboard soft-kill torpedo countermeasure systems.

Requirements

To provide maximum effectiveness in anti-torpedo defence against passive, active and wake homing torpedo threats. The system will be fielded until the end of life of the Halifax Class frigate, Victoria Class submarines, the Joint Support Ship and will be applicable to the Canadian Surface Combatant.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2020
  - Definition Approval
- 2021
  - Implementation Approval
  - Request for Proposal Release
- 2022
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Underwater Warfare Suite Upgrade

New and Replace Existing Systems

Objective

To modernize the underwater warfare sensor suite that is currently installed on the Halifax Class frigates. The Underwater Warfare Suite Upgrade (UWSU) project will improve the performance of the underwater sensors through the upgrade and/or replacement of the components of the underwater warfare sensor suite.

Requirements

The UWSU Project will reinstate a tactical advantage over threat submarines and torpedoes and gain improved survivability. UWSU will deliver an integrated system that replaces the current towed array sensor and sonobuoy processing system, adds additional active intercept sensors, and improves the processing and transmission control system of the existing hull mounted sonar. Additional components for the project will include a towed low frequency active sonar capability and a compatible active receive array that will improve detection performance for targets operating in both open ocean and littoral environments. The underwater warfare suite is to be designed in an integrated and modular fashion using commercial components and accepted open standards. The underwater warfare suite will minimize any physical changes to the current Halifax Class ship's structure.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2015
  - Definition Approval
- 2016
  - Request for Proposal Release
- 2017
  - Implementation Approval
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

NAVAL SYSTEMS - Virtual Integrated Shipboard Information Networks

New Systems

Objective

To establish a common shipboard networking baseline, develop subject matter experts and put in place the framework, infrastructure and process required to leverage emerging technologies such as virtualisation, service oriented architecture and cloud computing.

Requirements

The framework developed through the Virtual Integrated Shipboard Information Networks (VISIoN) will deliver high-availability, mission critical network capabilities interoperable with allies and Other Government Departments at a sustainable pace. The project will ensure that new technologies are consistently leveraged to significantly reduce the cost and effort required to maintain networking capabilities.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2018
  - Definition Approval
- 2020
  - Implementation Approval
  - Request for Proposal Release
- 2021
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Naval Requirements
Phone: 819-939-3950
Submit Your Ideas

LAND SYSTEMS - 3D Dismounted Training System

New Systems

Objective

This project will deliver a dismounted virtual/simulated training environment to allow for tactical training up to Company level at each of the five main Canadian Army garrisons.

Requirements

The Canadian Army requires the ability to provide repetitive, realistic and progressive dismounted soldier training in a garrison environment, in conjunction with the new Land Vehicles Crew Training System. This project is expected to complement the individual marksmanship and dismounted Section skills acquired through the Unit Weapons Training System and will network to the Land Vehicle Crew Training System that will provide the Army's common virtual environment. The dismounted virtual training system will provide a 3D/immersive sensors environment where the soldiers will be able to perform their essential dismounted individual and collective battle tasks, including but not limited to, taking proper firing positions, maneuvering tactically and assaulting an objective.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2023
    - Options Analysis
- 2026 to 2035
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - 84mm Ammunition

New Systems

Objective

The 84mm Ammunition Project will provide new Smoke, Illumination to be fired using the existing 84mm Carl Gustaf portable rocket launcher.

Requirements

The smoke ammunition to be acquired by this project will provide an effective smoke screen to hide the movement of infantry platoons and sections from observation. The illumination ammunition will enhance the infantry ability to detect, identify, and recognize belligerents at night.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Request for Proposal Release
- 2016
  - Implementation Approval
  - Contract Award
- 2019
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - 84mm Carl Gustaf Upgrade

Replace Existing Systems

Objective

The 84mm Carl Gustaf Upgrade Project will introduce new lighter weight recoilless rifles and a new sighting and fire control system that is compatible with the family of existing and future natures of 84mm ammunition, and that will allow for firing under obscuration and low light conditions, while increasing accuracy in all firing conditions.

Requirements

The existing optical sighting system will be replaced with an advanced sighting system to improve the weapon's accuracy, which may include a target range finder, compensation for metrological conditions and gunner's movement. The new rifle will be compatible with the existing ammunition and weigh significantly less than the existing weapon to offset the additional weight of the advanced sighting system. The project is also expected to deliver a simulation system, training equipment and integrated logistic support.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2021
  - Options Analysis
- 2023
  - Definition Approval
- 2024
  - Request for Proposal Release
- 2025
  - Implementation Approval
- 2026 to 2035
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Active Dismounted Combat ID

New Systems

Objective

The project will provide the Canadian Armed Forces with the capability to positively identify friendly dismounted soldiers, vehicles, aircraft and naval vessels using novel technologies such as, but not limited to infrared (IR) signatures.

Requirements

The project will leverage material and network technology to provide an enhanced friend or foe (IFF) identification capability, and will ideally be compatible with the systems of allied nations. The system should function in all light and weather conditions, focusing on night-time operations while limiting the probability of intercept, jamming and spoofing.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2025
    - Options Analysis
- 2026 to 2035
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
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LAND SYSTEMS - Active Protection System

New Systems

Objective
To introduce Active Protection Systems to enhance the protection of designated armoured vehicle fleets.

Requirements
The requirements will be based on the ratified NATO STANAG (4686) and include integrated sensors, warnings and counter-measure munitions to defeat incoming threats, while limiting collateral damages to the launching platform, surrounding dismounted troops and the weight and size footprint on the gaining vehicles.

Preliminary Estimate
- $100 million to $249 million

Anticipated Timeline
- 2022
  - Options Analysis
- 2024
  - Definition Approval
- 2025
  - Request for Proposal Release
- 2026 to 2035
  - Implementation Approval
  - Contract Award
  - Final Delivery

Point of Contact
Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Active Radio Frequencies Protection Systems

Replace Existing Systems

Objective

Improvised Explosive Devices threats continue to predominate the modern-day battlefield, particularly in those countries or failed-states that foster insurgencies. This project will ensure technological readiness to meet these evolving threats for the Canadian Armed Forces land forces in theatres of operations. This capability will contribute to denying adversarial use of the electromagnetic spectrum for initiating Improvised Explosive Devices and is interdependent with the broader Canadian Forces Land Electronic Warfare Modernisation project.

Requirements

These systems will have built-in sensors to detect radio frequency energy, assess whether this energy is friend/foe/unknown and in turn output energy directed at selected hostile targets, thereby neutralizing the intended hostile effects. This project will acquire the next generation of radio controlled improvised explosive devices defence systems for use in training and expeditionary operations.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2024
    - Options Analysis
- 2026 to 2035
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Advanced IED Detection and Defeat

New Systems

Objective

The objective of the project is to enhance the Canadian Armed Forces capability to mitigate the threat of improvised explosive devices on future operations. It will improve the Canadian Armed Forces' ability to anticipate, analyse and protect against improvised explosive device attacks.

Requirements

This project will examine land and air based remote detection and multi-sensor landmine detection systems that will exploit emerging technology. It will provide to the Canadian Armed Forces longer-term counter-improvised explosive device equipment that will respond to emerging threat technologies and methodologies. The project will also procure an integrated stand-off detection, warning and defeat system for route clearance and convoy operations.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2019
  - Options Analysis
- 2021
  - Definition Approval
- 2022
  - Request for Proposal Release
- 2023
  - Implementation Approval
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Advanced Sub-Unit Water Purification System

Attention: *HAS ABSORBED*
Has absorbed Joint Deployable Potable Water Production and Distribution.

Replace Existing Systems

Objective
The project will procure an integrated system of water purification, storage, distribution, transportation and sustainment equipment to support the supply of water to Canadian Armed Forces sub-units in training and on operations.

In order to realize procurement efficiencies, the equipment capabilities articulated in the Operational Support Capability series of Projects will be now be addressed by the Canadian Army Equipment Program. As part of this initiative this project will now incorporate the requirements of the Joint Deployable Water Production and Distribution projects.

Requirements
The project will improve the ability of the Canadian Armed Forces to purify water at the sub-unit level (125 to 250 soldiers). It will replace and augment the existing sub-unit water purification systems to fully sustain Regular and Reserve units on operations. Deliverables are expected to include a combined ultra-filtration and reverse osmosis based water purification system, associated water storage and distribution systems, sustainment kits and integrated logistics support.

Preliminary Estimate
- $50 million to $99 million

Anticipated Timeline
- 2015
  - Definition Approval
- 2017
  - Request for Proposal Release
- 2018
  - Implementation Approval
  - Contract Award
- 2022
  - Final Delivery

Point of Contact
Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Advanced Water Supply System

Replace Existing Systems

Objective

This project is to improve the Canadian Armed Forces water supply system and reduce the environmental impact of wastewater disposal on operations. The project will procure an integrated system of water conservation, purification, reuse, storage, distribution and wastewater treatment.

Requirements

The project requirements are yet to be defined but the potential deliverables include: formation level reverse osmosis water purification unit replacement; individual/section level water purification system; vehicle mounted water generation system; advanced bulk water storage and distribution system and advanced water packaging system.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2023
  - Options Analysis
- 2025
  - Definition Approval
- 2026 to 2035
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Airspace Coordination Center Modernization

Replace Existing Systems

Objective

The project will improve the Airspace Coordination Center capability by modernizing, replacing or augmenting elements of the existing systems to improve integration into the Military and Civilian Airspace Control Systems.

Requirements

The project will replace the current vehicle platforms with an upgraded Light Armoured Vehicle configuration and introduce a baseline shelter variant for flexibility of deployment. The project will modernize the existing sensor fusion computer suite and data link radios to provide improved joint network interoperability. This improved network communication will increase voice and data capabilities linked into a broader range of Canadian Armed Force and allied platforms for both domestic and international operations. The project will also introduce a training simulation capability.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Definition Approval
- 2017
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2020
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Anti Tank Guided Missile Replacement

Replace Existing Systems

Objective
To acquire a new multi-purpose, anti-armour and anti-structure weapon system.

Requirements
To acquire a new multi-purpose, anti-armour and anti-structure, portable and mounted weapon system to replace the legacy Tube-Launched, Optically Tracked, Wire-Guided anti-tank weapon system.

Preliminary Estimate
- $500 million to $1.5 billion

Anticipated Timeline
- 2026 to 2035
    - Options Analysis
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2036+
    - Final Delivery

Point of Contact
Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Armoured Combat Support Vehicle

Replace Existing Systems

Objective

The project will replace the M113 Tracked Light Armoured Vehicle and Light Armoured Vehicle II (BISON) fleets.

Requirements

The project will deliver a protected support vehicle to sustain the Canadian Army light and heavy armoured fighting vehicle fleets on domestic and expeditionary operations. It will be a general-utility combat support vehicle that will fulfill a wide variety of support roles on the battlefield, including but not limited to protected ambulance, command and control, engineer, and maintenance repair teams. It will provide a high degree of maneuverability and protection to its crew and payload.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2018
  - Options Analysis
- 2020
  - Definition Approval
  - Request for Proposal Release
- 2022
  - Implementation Approval
- 2023
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Body Armour Modernization

Replace Existing Systems

Objective
To replace the current soft and hard body armour systems with a new lighter weight modular, configurable and integrated individual protection system which is compatible with current and future equipment worn by soldiers.

Requirements
Soldiers require a new lighter weight modular, configurable and integrated individual protection system which is compatible with current and future equipment.

Preliminary Estimate
- $100 million to $249 million

Anticipated Timeline
- 2022
  - Options Analysis
- 2024
  - Definition Approval
- 2025
  - Request for Proposal Release
- 2026 to 2035
  - Implementation Approval
  - Contract Award
  - Final Delivery

Point of Contact
Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Bridge and Gap Crossing Modernization

Attention: HAS ABSORBED
Has absorbed Line of Communication Bridging Operations.

Replace Existing Systems

Objective
All military vehicles have some inherent off-road mobility over rough terrain; however, they require assistance to overcome natural and man-made obstacles such as soft soil, destroyed bridges, rivers, canals, ditches, urban rubble, road craters and minefields. The Bridge and Gap Crossing Modernization project will procure a family of new bridging systems to replace aging equipment and address gap crossing capability deficiencies.

In order to realize procurement efficiencies, the equipment capabilities articulated in the Operational Support Capability series of Projects will be now be addressed by the Canadian Army Equipment Program. As part of this initiative this project will now incorporate the requirements of the Line of Communication (LOC) Bridging Operations (LOC Bridging Ops) projects.

Requirements
The project will deliver a suite of light, medium and heavy bridging systems to replace the tank Armoured Vehicle Launched Bridge (Leopard 1 AVLB), the Medium Floating Bridge (MFB)/Medium Floating Raft (MFR), Medium Girder Bridge (MGB), ACROW Bridge and provide other bridging assets for a globally deployable gap-crossing capability. Potential deliverables are: Infantry Foot Bridges, Light Support Bridges, Medium Support Bridges, Heavy Support Bridges, Heavy Assault Bridges, Line of Communication Bridges, Floating Bridges and Rafts.

Preliminary Estimate
- $100 million to $249 million

Anticipated Timeline
- 2019
  - Options Analysis
- 2021
  - Definition Approval
- 2022
  - Request for Proposal Release
- 2023
  - Implementation Approval
- 2025
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact
Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - C16 Digital Compass Upgrade

Replace Existing Systems

Objective

The project will replace the C16 digital magnetic compass with an improved pointing system and power supply.

Requirements

The C16 fire control system is a complex electronic system in a rapidly evolving technology area. The project will upgrade the digital magnetic compass component within the C16 with an improved pointing system and power supply to improve weapons accuracy, reduce potential collateral damage and reduce the training burden.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Request for Proposal Release
- 2020
  - Implementation Approval
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - C6 GPMG Modernization

Replace Existing Systems

Objective
The project will modernize the C6 General Purpose Machine Gun.

Requirements
The project will procure a new fleet of modernized C6A1 General Purpose Machine Guns that will provide enhanced capabilities and reliability. The new weapon will accommodate optical sights, aiming devices, improved ammunition and ancillaries load carriage system for C6 teams. The C6 flexible configuration will be upgraded to the C6A1 variant and all the different armoured fighting vehicle coaxial configurations will be rationalized.

Preliminary Estimate
- $100 million to $249 million

Anticipated Timeline
- 2016
  - Implementation Approval
- 2017
  - Contract Award
- 2022
  - Final Delivery

Point of Contact
Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Camp Sustain

Attention: HAS ABSORBED

Has absorbed the following projects: Waste Water Management; Solid Waste Management in Operations; Enhanced High Readiness

New Systems

Objective

This project will deliver new camp utilities to improve energy efficiencies and reduce the environmental footprint of military base/compounds in an operational environment. This project will complement the tactical generators (2kW to 60 kW) provided by the Land Force Modern Power Source by providing a larger operational 100kW to 500kW power range. It will also provide a joint deployable waste water management capability capable of supporting a deployed joint task force during sustained expeditionary operations. Finally it will deliver solid waste management systems to support large, deployed operations or exercises.

In order to realize procurement efficiencies, the equipment capabilities articulated in the Operational Support Capability series of Projects will be now be addressed by the Canadian Army Equipment Program. As part of this initiative this project will now incorporate the requirements of the Waste Water Management (WWM) and Solid Waste Management in Operations projects.

Requirements

The project is aiming at reducing field camps fossil fuel consumption by 25-50%, water demand by 50-75% and waste (liquid and solid) by 50-75%. No single technology can achieve such savings and the project will explore the following potential deliverables: smart power management systems (camp micro-grid); deployable renewable energy systems (solar/wind); camp energy storage (batteries, compressed air); deployable wastewater treatment plants; waste to energy systems (pyrolyser, gasifier); fuel efficient large power generators (variable speed generators); camp energy usage reduction systems (reefer solar shades, improved shelter insulations); improved camp heating and cooling systems and energy capture systems (heat capture and reuse).

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2019
  - Definition Approval
- 2020
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2023
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Canadian Forces Tactical Combat Identification

New Systems

Objective

The Canadian Armed Forces Tactical Combat Identification project will improve the ability of tactical commanders to maintain battle space awareness to differentiate between their own, allied, and adversarial forces.

Requirements

Canadian Army land platforms require automated, cooperative target identification capability to enable timely and accurate identification of friendly forces out to the maximum engagement range of weapons in order to minimize fratricide on a non-linear, conventional, joint and/or coalition battlefield. It is highly desirable that this capability be compatible with existing and future aircraft and dismounted soldier identification systems.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2022
  - Options Analysis
- 2024
  - Definition Approval
  - Request for Proposal Release
- 2026 to 2035
  - Implementation Approval
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - CF Land Electronic Warfare Modernization

New Systems

Objective

The Canadian Armed Forces must be able to employ the electromagnetic spectrum effectively as an integral aspect of all military operations, while selectively denying or exploiting the adversary's use of it and protecting Canadian Armed Forces from the effects of hostile action taken using electromagnetic triggers. The Canadian Forces Land Electronic Warfare Modernization project will improve the Canadian Armed Forces' ability to monitor, manage and deliberately deny the use of the electromagnetic spectrum.

Requirements

This project will satisfy five capabilities, including electronic warfare support, force protection electronic attack, counter command and control electronic attack, electronic warfare planning management and analysis, and electronic warfare vehicles. These capabilities will contribute to gaining the initiative and surprising the enemy by selectively exploiting or denying adversarial use of the electromagnetic spectrum in order to understand the potential adversary's intent, prevent them from gaining a clear understanding of the operational environment, and ensure that they cannot impede friendly manoeuvre through the use of electromagnetic triggers.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2016
  - Definition Approval
- 2017
  - Request for Proposal Release
- 2018
  - Implementation Approval
- 2019
  - Contract Award
- 2023
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Close Combat Modular Fighting Rig

Replace Existing Systems

Objective

This project will acquire new modular fighting rigs (load bearing vests), pouches and accessories.

Requirements

The in-service Tactical Vest lacks flexibility, modularity and configurability for the close combat soldier in the current and future operating environment. The new modular fighting rig will allow soldiers to better configure their load bearing equipment to optimize functionality while conducting combat tasks.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2017
  - Request for Proposal Release
- 2018
  - Implementation Approval
  - Contract Award
- 2020
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Combined/Joint Intelligence Modernization

New Systems

Objective

The project will provide a network architecture, equipment, vehicles, secure sensitive work environment and garrison infrastructure to generate, employ and sustain the core of four deployable land-based All Source Intelligence Centres in support of the full spectrum of combined and joint military operations.

Requirements

The project is in Options Analysis and the requirements include level III deployable work environments (electronically shielded shelters), field mobile information technology equipment for intelligence personnel, software for intelligence analysis and networking. There is further requirement for level III garrison work environments, to include information technology equipment, networking, and infrastructure.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2016
  - Definition Approval
- 2018
  - Implementation Approval
  - Request for Proposal Release
- 2020
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Common Heavy Equipment Replacement

Attention: HAS ABSORBED

Has absorbed the following projects: Runway Repair; Joint Material Handling Equipment; Joint Heavy Engineering Equipment

Replace Existing Systems

Objective

The project will improve the Canadian Armed Forces mobility, counter-mobility, force protection and sustainment capabilities by recapitalizing existing fleets of Heavy Support Equipment. It will include a material handling capability to load and unload International Standards Organization (ISO) Containers and bulk materiel at intermodal transfer points as well as at main operating bases in support of deployed joint task forces. It will be capable of activating and operating extended lines of communication (LOC) from Canadian ports of embarkation to theatre ports of disembarkation, including theatre set-up, in-theatre force bed-down, and Reception, Staging and Onward Movement (RSOM) activities. It will include capabilities to conduct large scale horizontal construction activities ranging from runway repairs to road construction and maintenance.

These new equipment fleets will be used by Regular Force and Reserve Force units to conduct individual and collective training, and domestic and expeditionary operations. In order to realize procurement efficiencies, the equipment capabilities articulated in the Operational Support Capability series of Projects will be now be addressed by the Canadian Army Equipment Program. As part of this initiative this project will now incorporate the requirements of the Quarry Operations and Joint Material Handling Equipment (JMHE) and partially those of: Construction and Road Maintenance, Joint Heavy Engineering Equipment (JHEE) and Runway Repair projects.

Requirements

Future Canadian Armed Forces missions require Heavy Support Equipment capabilities that can execute both combat and stability operations. In combat operations, Heavy Support Equipment provides mobility (obstacle breaching, road and bridge construction and maintenance), counter-mobility (obstacle construction), survivability (camp, decoy, protective position construction), and sustainment support (loading, moving, unloading aircraft, watercraft, and land-based vehicle cargo) to Canadian Armed Forces units. It will also provide an air-transportable capability that is able to operate on rough terrain and off road surfaces and function effectively in both moderate and extremes of climate. In stability operations, Heavy Support Equipment supports humanitarian relief and disaster assistance tasks (dyke and shelter construction, clearing debris). The Combined Heavy Equipment Replacement project will procure a basic fleet of Commercial-Off-The-Shelf vehicles for Reserve Force training and domestic operations, and militarized vehicles for Regular Force training and operations. This capability may include but is not limited to ISO Container Handlers, and forklift trucks for both hard-pack surfaces and rough terrain. Regular Force vehicles will include capabilities such as operator protection, engines capable of burning high-sulphur diesel or kerosene-based fuels, and platforms able to meet Canadian Armed Forces and NATO air, land, and marine strategic and operational transportability requirements.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2016 - Definition Approval
- 2017 - Request for Proposal Release
- 2018 - Implementation Approval
- 2019 - Contract Award
- 2024 - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
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LAND SYSTEMS - Common Remote Weapon System

New Systems

Objective

To acquire a new and Common Remote Weapon System to replace the in-service system on designated and new armoured vehicle fleets.

Requirements

Deliverables are expected to include new Common Remote Weapon System for designated in-service and new armoured vehicles fleets, such as the upgraded LAV Engineer variant as well as vehicles to be delivered by the Armoured Combat Support Vehicle project. The common RWS will provide an improved self-defence capability for mounted crews, while reducing the training burden associated with the many different legacy systems.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2018
  - Request for Proposal Release
- 2019
  - Implementation Approval
  - Contract Award
- 2022
  - Final Delivery

Point of Contact

Director Land Requirements
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Submit Your Ideas

LAND SYSTEMS - Demolition Modernization Project

Replace Existing Systems

Objective

This project will address the need to modernize the Canadian Armed Forces demolition explosives and accessories.

Requirements

Acquire new demolition explosive types and accessories for use by military engineers in training and operations. This project will acquire new capabilities to enable the conduct of mobility, counter-mobility and protection tasks.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2024
    - Options Analysis
- 2026 to 2035
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact

Director Land Requirements
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Submit Your Ideas

LAND SYSTEMS - Direct Fire Target Modernization

Replace Existing Systems

Objective

The objective of this project is to recapitalize, modernize and add new integrated capabilities that are compatible with the Weapon Effects Simulation and other legacy live fire training systems.

Requirements

The project will recapitalize, modernize and add new capabilities to the Direct Fire Target systems with a view of integrating all existing and new capabilities to be fully compatible with Weapon Effects Simulation, Urban Operations Training System and live fire field exercise environments. This will include static, portable and mobile targets for live and simulated engagements.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2022
  - Options Analysis
- 2024
  - Definition Approval
- 2025
  - Request for Proposal Release
- 2026 to 2035
  - Implementation Approval
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Domestic and Arctic Mobility Enhancement

Replace Existing Systems

Objective

This project is intended to modernize and replace the domestic and arctic mobility capabilities currently provided by the Light Utility Vehicle Wheeled Command & Reconnaissance and the BV206 Medium Over Snow Vehicle.

Requirements

The project deliverables are expected to include, but not be limited to, marginal terrain vehicles, light patrol vehicles, and marginal Arctic condition vehicles for the Canadian Armed Forces. This will provide specialized mobility capability to units responding to domestic and Arctic contingencies in all terrains and all seasons.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2020
  - Options Analysis
- 2022
  - Definition Approval
- 2023
  - Request for Proposal Release
- 2024
  - Implementation Approval
- 2025
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Engineer Close Support Capability

Replace Existing Systems

Objective

The Engineer Close Support Capability will enhance the combat engineer's ability to provide tactical mobility, counter-mobility and survivability support to affiliated formations during training, domestic and expeditionary operations.

Requirements

The Engineer Close Support Capability will provide engineer units a range of capabilities such as geomatic support, diving support, and optimized small tool suites for engineer field troops taking part in land force mobility, counter-mobility and survivability tasks.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2024
    - Options Analysis
- 2026 to 2035
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
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LAND SYSTEMS - Enhanced Recovery Capability

Replace Existing Systems

Objective

This project will replace the Canadian Armed Forces Heavy Logistic Vehicle Wheeled (HLVW) Wrecker/Recovery configuration. It will transform the recovery portion of the sustain capability by enabling modern technologies to effectively recover the newer and heavier armoured fighting and logistics vehicles that cannot be currently recovered in a safe and suitable manner.

In order to realize procurement efficiencies, the equipment capabilities articulated in the Operational Support Capability series of Projects will be now be addressed by the Canadian Army Equipment Program. As part of this initiative this project will now incorporate the requirements of the: Construction and Road Maintenance, Joint Heavy Engineering Equipment, Joint Special Purpose Heavy Lift and Runway Repair.

Requirements

This project will rationalize, replace and modernize the in-service recovery capability and related equipment, thereby enabling sustain capability transformation to meet the needs of the Canadian Armed Forces Regular, Reserve and Joint units in a safe and effective manner. The project will field a new heavy recovery system to extract and winch mired vehicles, to right vehicles in a controlled manner, to lift vehicles and logistics containers (for recovery purposes) and to suspend tow damaged or unserviceable vehicles.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2017
  - Definition Approval
  - Request for Proposal Release
- 2019
  - Implementation Approval
- 2020
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Land Requirements
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Submit Your Ideas

LAND SYSTEMS - FOO/FAC Modernization

Replace Existing Systems

Objective

This project will replace some or all of the in-service operational and training equipment for the Forward Observation Officer, Forward Air Controller and Joint Fires Observer. The project will acquire modernized and digitized hardware and software that will enhance configurability and provide a digital networked capability for the common joint operating environment.

Requirements

Project requirements should include equipment for dismounted and mounted operations and simulation training. It will likely replace some or all of the in-service operational and training equipment for dismounted roles and on the Light Armoured Vehicle III Observation Post Variant by acquiring modernized and digitized hardware and software that will provide a digital networked capability for all operating environments. It should replace some or all of the in-service Forward Observation Officer, Forward Air Controller and Joint Fires Observer simulation systems by acquiring realistic and immersive complex battlefield simulators that should be networked to the Land Vehicles Crew Training System common computer generated imagery.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2020
  - Options Analysis
- 2022
  - Definition Approval
- 2023
  - Implementation Approval
  - Request for Proposal Release
- 2024
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Future Combat Uniform and Footwear

Replace Existing Systems

Objective

This project will replace the existing combat uniform system with state of the art design features and textiles for both temperate and arid climate.

Requirements

This project will deliver a combat clothing system in sufficient quantities to support Canadian Armed Forces expeditionary joint operations. This system may include modifications and/or replacement of various layers of clothing from undergarment to the outer most layers for environmental protection. This project will solve compatibility issues between operational clothing and soldier's equipment, including load carriage and ballistic protection. It will be designed to maximize comfort and minimize weight/bulk while adding extra protection such as inherent fire resistance. It may also include enhanced camouflage properties, integrated power distribution and CBRN protection properties into layers or the entire clothing system.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2023
    - Options Analysis
- 2025
    - Definition Approval
- 2026 to 2035
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Ground Based Air and Munitions Defence

New Systems

Objective

The project will introduce a new Ground Based Air and Munition Defence system to protect deployed forces from a variety of air threats. Deliverables will likely include an integral or integrated radar feed, a networked command, control and communications system, as well as munitions and launcher systems.

Requirements

The majority of items to be acquired by this project will be met by current commercial-off-the-shelf technology. Few new systems or subsystems will need to be designed. The project requirements will cover four functional areas: stand-off detection tools, search viewing aids, general purpose search tools and an analysis capability.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2018
  - Options Analysis
- 2019
  - Definition Approval
- 2020
  - Request for Proposal Release
- 2021
  - Implementation Approval
- 2022
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - High Risk Search Capability

New Systems

Objective

The objective of the project is to deliver modern equipment to the Canadian Armed Forces to support the full spectrum of operations at the battle group level by accurately and consistently locating explosive hazards and other man-made objects of military interest.

Requirements

The majority of items to be acquired by this project will be met by current commercial-off-the-shelf technology. Few new systems or subsystems will need to be designed. The project requirements will cover four functional areas: stand-off detection tools, search viewing aids, general purpose search tools and an analysis capability.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Definition Approval
- 2017
  - Implementation Approval
- 2018
  - Request for Proposal Release
  - Contract Award
- 2020
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Indirect Fire Modernization

New Systems

Objective

This project will acquire new indirect fire systems such as, but not limited to, a modern mortar system.

Requirements

There is a requirement to provide highly responsive, all weather, 24/7, accurate indirect fire effects against mobile and static targets including high payoff and time sensitive targets. The Indirect Fire Modernization system(s) will provide fire support to joint forces, especially Battle Groups and Brigades. There is also a requirement for a cost effective indirect fire training system for the Regular and Reserve artillery units.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2018
  - Options Analysis
- 2020
  - Definition Approval
- 2021
  - Request for Proposal Release
- 2022
  - Implementation Approval
- 2023
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Individual Target Training System

New Systems

Objective

The project will acquire a training capability that will increase the chances of mission success by improving individual targeting skills such as identifying legitimate targets and applying rules of engagement.

Requirements

The Canadian Army requires an ability to positively identify and appropriately engage legitimate targets, which is an essential requirement in the targeting process. It will reduce the risk of committing fratricide, and causing non-combatant casualties and collateral damage.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2025
  - Options Analysis
- 2026 to 2035
  - Definition Approval
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
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LAND SYSTEMS - Joint Deployable HQ and Signal Regiment Modernization

New Systems

Objective

The project will improve 1 Canadian Division Headquarters' ability to fulfill the joint deployable headquarters function and the Joint Signal Regiment's ability to provide integral support to the joint headquarters, as well as a national rear link function to all significant international and domestic operations and other assigned national tasks.

Requirements

Potential project requirements include fielding joint fires support tools, small mission deployable command and control suites, joint common operational picture systems, digital liaison team support tools, commanders' tactical command post and combined, joint, interagency command and control interoperability functions. The project is interdependent with the ongoing Headquarters Shelter System which is in implementation.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2019
  - Definition Approval
- 2020
  - Request for Proposal Release
- 2021
  - Implementation Approval
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Land Command Support System Intelligence Surveillance Reconnaissance Modernization

Replace Existing Systems

Objective

This project will modernize and integrate the command, control and planning elements of the various Canadian Army intelligence, surveillance and reconnaissance systems.

Requirements

The manoeuvre units of the Army of Tomorrow will require dedicated integral sensors that can provide pervasive coverage over large areas of operations with optimal effect. Although replacement of existing sensors and addition to sensor capability will be considered, the focus of effort will be towards integrating, interfacing and consolidating existing sensor information efficiently, making sensor outputs readily available to commanders and staff throughout the battlefield, providing tools for the effective management and control of all battlefield sensors and enabling access to external sensor products from Joint, Interagency, Multinational and Public sources.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2018
  - Options Analysis
- 2019
  - Definition Approval
- 2020
  - Request for Proposal Release
- 2021
  - Implementation Approval
- 2022
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Land Command Support System Tactical Command and Control Information System Modernization

Replace Existing Systems

Objective

This project will modernize and re-capitalize the in-service tactical command and control information system components of the land command support system. This will incorporate major updates and replacement of the existing command support hardware and software components of the Canadian Army command support system from formation to individual tactical vehicle commanders. This project will be supported by a robust tactical communications infrastructure.

Requirements

Deliverables are expected to improve the following command functions: commander decision-making at all levels, situational awareness, collaborative planning including information/data sharing with other joint partners, electronic transmission of orders and plans, battle tracking and monitoring the operational status of Formations, Battlegroups, Companies, Platoons, Sections and vehicles. Other potential deliverables include integral simulation systems for Commanders and staffs and interface gateways with Joint, Interagency, Multinational and Public partners. The project will address long standing interface issues with existing stovepipe systems.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2019
  - Options Analysis
- 2021
  - Definition Approval
- 2022
  - Request for Proposal Release
- 2023
  - Implementation Approval
- 2024
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

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Phone: 819-994-4225
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LAND SYSTEMS - Land Command Support System Tactical Communications Modernization

Replace Existing Systems

Objective

The project will improve the ability of tactical commanders and their staffs to exchange planning and execution information by modernising and re-capitalising the in-service tactical communication systems. The project will provide robust, reliable, and adaptive bearer systems and management tools for use in connecting mission elements engaged in land operations.

Requirements

The requirements are to be defined but should include Land Force omni-directional radio frequency (RF) and next generation beyond line of sight (BLOS) capability components to carry voice and data from commanders to warfighters. All communication emission/receiver systems from formation to dismounted soldier will be addressed, including vehicle intercommunication capabilities. It will also include planning and management tools to support effective friendly use of the electromagnetic spectrum and gateway systems to interface with the Joint, Interagency, Multinational and Public systems.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2017
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Request for Proposal Release
- 2020
  - Implementation Approval
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Land Force Survivability Engineering Project

Replace Existing Systems

Objective

The Land Force Survivability Engineering Project will provide the land force with enhanced survivability engineering capability in the area of advanced deployable field fortification and toxic hazards response.

Requirements

The project will provide advanced deployable field fortifications in support of main and/or forward operating bases, and a capacity to respond to situations involving toxic hazards.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2021
  - Options Analysis
- 2023
  - Definition Approval
- 2024
  - Request for Proposal Release
- 2025
  - Implementation Approval
- 2026 to 2035
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Land Vehicle Crew Training System Upgrade

Replace Existing Systems

Objective
The Land Vehicle Crew Training System will require a mid-life upgrade starting in the 2030 timeframe.

Requirements
To upgrade the hardware and software of the Land Vehicle Crew Training System at mid-life.

Preliminary Estimate
- $100 million to $249 million

Anticipated Timeline
- 2026 to 2035
    - Options Analysis
    - Definition Approval
    - Request for Proposal Release
- 2036+
    - Implementation Approval
    - Contract Award
    - Final Delivery

Point of Contact
Director Land Requirements
Phone: 819-994-4225
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LAND SYSTEMS - Land Vehicles Crew Training System

New Systems

Objective

The project will provide a crew training system for land combat vehicles that will be comprised of simulators, infrastructure and a learning environment complete with operations and maintenance support. The focus will be on the Upgraded Light Armoured Vehicle III and the Leopard 2 fleets. The crew training system will be networked to provide individual and higher levels of training.

Requirements

The project will procure a common/central computer generated imagery and modern high, medium and low fidelity simulators with network capabilities in purpose built infrastructure in five Canadian Armed Forces Bases (Gagetown, Valcartier, Petawawa, Shilo and Edmonton). The Land Vehicle Crew Training System will provide simulation for the upgraded Light Armoured Vehicle fleet, which is the largest armoured vehicle fleet, and the Leopard 2 fleet. Other land combat vehicles will be addressed with low fidelity simulation and by other potential land projects, as necessary. At the individual training level, a single crew station shall be used to teach and develop the skills of crew commanders, gunners/loaders and drivers. The crew stations will be linked over local area networks to train up to the sub-unit combat team level.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2016
  - Definition Approval
- 2017
  - Request for Proposal Release
- 2018
  - Implementation Approval
- 2019
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - LAV Operational Requirements Integration Task Mobility Upgrade

Replace Existing Systems

Objective

This project will upgrade the Light Armoured Vehicle III - Operational Requirements Integration Task vehicles to the standard LAV Upgrade baseline configuration, focusing on the common mobility and protection improvements.

Requirements

The Light Armoured Vehicle III - Operational Requirements Integration Task vehicles require the LAV Upgrade mobility and protection enhancements.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2018
  - Request for Proposal Release
- 2019
  - Implementation Approval
  - Contract Award
- 2022
  - Final Delivery

Point of Contact

Director Land Requirements
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Submit Your Ideas

LAND SYSTEMS - LAV OPV Crew Commander Independent Viewer

New Systems

Objective

This project will acquire a new crew commander independent observation system for integration into the upgraded Light Armoured Vehicle Observation Post Vehicles.

Requirements

This project will acquire new crew commander independent viewers for all Light Armoured Vehicle Observation Post Vehicles. This capability will improve the crew commanders local situational awareness, observation and target acquisition capabilities.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2018
  - Request for Proposal Release
- 2019
  - Implementation Approval
  - Contract Award
- 2022
  - Final Delivery

Point of Contact

Director Land Requirements
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LAND SYSTEMS - Light Utility Vehicle Wheeled Recapitalization

Replace Existing Systems

Objective
To replace and/or modernize the in-service Light Utility Vehicle Wheeled fleets.

Requirements
The project will recapitalize the light utility vehicle capability currently provided by the in-service Light Utility Vehicle Wheeled (Mercedes G-Wagon SMP and Chevrolet Siverado MilCOTS) fleets at the end of their useful life.

Preliminary Estimate
- $100 million to $249 million

Anticipated Timeline
- 2019
  - Options Analysis
- 2021
  - Definition Approval
- 2023
  - Request for Proposal Release
- 2024
  - Implementation Approval
- 2025
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact
Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Live Fire Monitoring Equipment

New Systems

Objective

The Live Fire Monitoring Equipment will allow a qualified gunnery instructor to remotely monitor armoured fighting vehicle crews performance on live fire ranges for corrective actions and post-fire debriefs.

Requirements

The project will acquire appended video and audio monitoring and recording equipment, instructor control stations and target cameras to safely and remotely monitor and debrief crew live fire engagements. This capability will seamlessly progress a pre-qualified crew from the Land Vehicles Crew Training System simulators to live fire qualifications.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2020
  - Options Analysis
- 2023
  - Definition Approval
- 2024
  - Request for Proposal Release
- 2025
  - Implementation Approval
- 2026 to 2035
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Logistics Vehicle Modernization

Attention: HAS ABSORBED

Has absorbed the following projects: Joint Special Purpose Heavy Lift; Deployable Operational Level Bulk Fuel Storage and Petroleum Quality Surveillance/Assurance; Joint Deployable Detained Persons Holding Facility; Deployable Firefighting Capability

Replace Existing Systems

Objective

The Logistics Vehicle Modernization project will modernize and improve the Canadian Armed Forces light and heavy logistics vehicle capability. Improvements to payload, functionality, protection and mobility are expected.

In order to realize procurement efficiencies, the equipment capabilities articulated in the Operational Support Capability series of Projects will be now be addressed by the Canadian Army Equipment Program. As part of this initiative this project will now incorporate the requirements of the: Deployable Firefighting Capability, Deployable Operational Level Bulk Fuel Storage and Petroleum Quality Surveillance/Assurance and Joint Deployable Detained Persons Holding Facility requirements and partially those of Joint Special Purpose Heavy Lift projects.

Requirements

The project will mainly replace the Light Support and Heavy Logistics Vehicle Wheeled fleets (LSVW and HLVW) with new light (2.2 to 3.5 tonnes) and heavy (16.5+ tonnes) trucks, tractors, trailers, (45+ tonnes) kitted truck bodies (special equipment vehicle kits), integrated bulk material handling systems, bulk fuel and water containers. IT will also include specific capabilities required such as: austere environment firefighting platforms that are all-terrain capability for rapid firefighting, rescue, and extrication. Along with a capability of handling and transportation of detainees in a theatre of operations. Those trucks will be used to carry light and heavy cargo and truck bodies of various configurations and roles for domestic and expeditionary training and operations.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2016
  - Definition Approval
- 2019
  - Request for Proposal Release
- 2020
  - Implementation Approval
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Logistic Vehicles Recapitalization

Replace Existing Systems

Objective

The in-service logistics vehicle fleets will require a mid-life extension and/or recapitalization. Those legacy and newer fleets include the Medium Support Vehicle System commercial and military patterns.

Requirements

To recapitalize and modernize the fleet of logistics vehicles.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2026 to 2035
    - Options Analysis
- 2036+
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Mobile Shelter Recapitalization

Replace Existing Systems

Objective

To recapitalize the fleet of mobile shelters entering service now through the Medium Support Vehicle System project.

Requirements

To recapitalize the fleet of mobile shelters at the end of their useful life to continue to provide a wide range of mobile logistic functions, such as maintenance and repair, storage, field offices, consumables and medical functions.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2020
  - Options Analysis
- 2024
  - Definition Approval
- 2025
  - Request for Proposal Release
- 2026 to 2035
  - Implementation Approval
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - ARCHIVED - New Canadian Ranger Rifle

Replace Existing Systems

Objective

The project will replace the Canadian Ranger's Lee Enfield rifle.

Requirements

The project will procure a new robust bolt action rifle, ammunition and accessories for the Canadian Rangers. The new weapon will replace existing capability and enhance Canadian Ranger Patrol Groups ability to operate in Canada's remote regions.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
    - Implementation Approval
    - Contract Award
- 2019
    - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Next Generation Small Arms

Replace Existing Systems

Objective

To acquire new light weight combat small arms, including rifles and light machine guns, advanced sights and fire control systems, accessories and ammunition.

Requirements

To acquire new light weight combat small arms, including rifles and light machine guns, advanced sights and fire control systems, accessories and ammunition.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2024
  - Options Analysis
- 2026 to 2035
  - Definition Approval
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Night Vision System Modernization

Replace Existing Systems

Objective
To replace existing portable single function night vision systems with modern, next generation and fused night vision systems.

Requirements
To replace existing portable single function night vision systems with modern, next generation and fused night vision systems. This capability will improve the soldier's ability to operate in reducing visibility conditions while reduce operator payload.

Preliminary Estimate
- $100 million to $249 million

Anticipated Timeline
- 2023
    - Options Analysis
- 2026 to 2035
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact
Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - RDX Replacement

Replace Existing Systems

Objective

The project will acquire an alternate and environmentally acceptable explosive product, matching or exceeding the explosive compound known as RDX.

Requirements

This project will replace RDX, an explosive nitroamine widely used in military and industrial applications, with a more environmentally acceptable explosive compound that still meets military requirements.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Request for Proposal Release
- 2020
  - Implementation Approval
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Small Arms Modernization

Replace Existing Systems

Objective

The Small Arms Modernization project will improve the Canadian Armed Forces small arms capability by upgrading or replacing most personal weapons and accessories, less the Canadian Ranger Rifle and the C6 General Purpose Machine Gun replacements, which are managed under separate projects.

Requirements

The project will replace the personal weapons and acquire low power, lightweight and enhanced observation and aiming devices to reduce the soldier's payload and improve accuracy. The program will focus on the following capabilities: the General Service Pistol, C7 and C8 Assault Rifles, Rifle Grenade Launcher, 5.56mm ammunition weight, assault rifle accessories, C9 Light Machine Gun, sharpshooter capability and a gunshot detector.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2020
  - Options Analysis
- 2022
  - Definition Approval
- 2023
  - Request for Proposal Release
- 2024
  - Implementation Approval
- 2025
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Soldier System 2030

Replace Existing Systems

Objective

Soldier System 2030 will leverage future achievements of the Canadian Army's soldier system development, as well as ongoing related research to develop a top-to-bottom integrated suite of soldier tools.

Requirements

Soldier System 2030 will leverage projected advancements in dismounted combat technologies from projects as varied as the Integrated Soldier System, Future Combat Uniform, Sniper Systems and Small Arms Modernization. These capabilities will be considered as the baseline and their high-level mandatory requirements will be updated to reflect technological developments since their conception to match available technology in the projected timeframe. It is anticipated that soldier technology research efforts into such areas as exoskeletons and energy harvesting will be developed into commercially-viable products by the defence industry to meet the challenges of the future operating environment.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2022
    - Options Analysis
- 2025
    - Definition Approval
- 2026 to 2035
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Soldier Winter Mobility Systems

Replace Existing Systems

Objective

This project will provide new winter mobility equipment to soldiers.

Requirements

This project will acquire winter mobility equipment that will enhance soldiers' mobility in the snow. It will provide soldiers with a suite of equipment expected to include but not be limited to new snowshoes, skis and toboggans to allow soldiers to conduct winter operations while minimizing equipment weight and volume.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2019
  - Options Analysis
- 2022
  - Definition Approval
- 2023
  - Implementation Approval
  - Request for Proposal Release
- 2024
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Soldiers Helmet Mid-Life Upgrade

Replace Existing Systems

Objective

This project will improve the head protection currently provided by the Canadian Armed Forces soldier's combat helmet by introducing a modular design and improved protective materials.

Requirements

The requirements are expected to include but not be limited to a modular design, and improved ballistic, blast and blunt force protection. The design will seek to maximize comfort and minimize weight. It may also include enhanced camouflage properties, integrated power distribution and with modularity up to complete head encapsulation.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2022
  - Options Analysis
- 2024
  - Definition Approval
- 2025
  - Request for Proposal Release
- 2026 to 2035
  - Implementation Approval
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Special Weapons and Ammunition

Replace Existing Systems

Objective

The project will improve Canadian Army niche capabilities by replacing several small arms weapons and acquiring new specialized weapons, ammunition and integrated logistic support for the new or improved equipment.

Requirements

This project is expected to acquire foreign weapons for familiarization and pre-deployment training, new weapons for naval boarding parties and new shotguns and ammunition optimized for combat employment. Non-lethal weapons and ammunition may also be introduced, as well as a new breaching system.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2025
    - Options Analysis
- 2026 to 2035
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Tactical Armoured Patrol Vehicle Life Extention

Replace Existing Systems

Objective

This project will extend the life of the Tactical Armoured Patrol Vehicle fleet.

Requirements

With the procurement of the Tactical Armoured Patrol Vehicle fleet, additional programming will be required to optimize fleet in-service capability and life expectancy. To accomplish this, the Tactical Armoured Patrol Vehicle fleet will require mid-life extension and upgrading.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2025
    - Options Analysis
- 2026 to 2035
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2036+
    - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Tactical Observer Fire Control System Upgrade

Replace Existing Systems

Objective

This project will upgrade or replace the in-service Tactical Observer Fire Control System software and hardware.

Requirements

To upgrade or replace the in-service Tactical Observer Fire Control System software and hardware, which are used by Artillery Forward Observers to provide timely and precise artillery fire support on operations. The upgrade will focus on improving accuracy, integration into the upgraded LAV, and user interface.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2017
  - Definition Approval
- 2018
  - Request for Proposal Release
- 2019
  - Implementation Approval
  - Contract Award
- 2022
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Tactical Parachute System Modernization

Replace Existing Systems

Objective

The Tactical Parachute System Modernization (TPSM) intends to modernize current parachute systems with an improved precision and mass-drop parachute capability for the Canadian Army, Search and Rescue and Special Operation Forces.

Requirements

The modern contemporary operating environment solicits a different set of requirements that includes a higher degree of accuracy, safety, and reliability. The planned deliverables include an enhanced mass drop parachute, an enhanced semi-steerable mass drop parachute and an individual precision parachute. The project will also deliver the integrated logistics support and the training equipment to maintain and sustain the modern parachuting systems.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2020
  - Options Analysis
- 2022
  - Definition Approval
- 2023
  - Request for Proposal Release
- 2024
  - Implementation Approval
- 2025
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - *NEW* Tactical Power System

Replace Existing Systems

Objective

The Tactical Power System project will replace all tactical generators ranging from 2kW to 60kW power output, including the Tactical Quiet generators with a smart energy and power management system to generate, store and distribute energy.

In order to realize procurement efficiencies, the equipment capabilities articulated in the Operational Support Capability series of Projects will be now be addressed by the Canadian Army Equipment Program. As part of this initiative this project will now incorporate the requirements of the Smart Energy and Power Management (SEPM) project.

Requirements

The Tactical Power System project will supply the necessary power to the multitude of electrical equipment used by land force, such as radios, command posts, computers, lighting, heaters and air conditioning systems to be operated as designed. The distribution and management systems will include safe and suitable equipment and procedures to maintain electrical power systems on operations.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2017
  - Definition Approval
  - Request for Proposal Release
- 2018
  - Implementation Approval
  - Contract Award
- 2020
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Tank Life Extension

Replace Existing Systems

Objective

The Leopard 2 family of vehicles will require mid-life extension starting in the 2027 timeframe.

Requirements

Additional programming will be required to optimize fleet in-service capability and life expectancy. To accomplish this, the Leopard 2 fleet will require mid-life extension and upgrading. This will include the Leopard 2 A4, A6, Armoured Recovery Vehicles and Armoured Engineer Vehicles.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2022
  - Options Analysis
- 2024
  - Definition Approval
- 2025
  - Request for Proposal Release
- 2026 to 2035
  - Implementation Approval
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Unit Weapons Training System

Replace Existing Systems

Objective

The project will provide the virtual simulation baseline for training dismounted soldiers up to section level to include all in-service small arms, dismounted crew served weapons and be ready to integrate Forward Observation Officer and Forward Air Controller and mortar detachments. The Unit Weapons Training System will be interoperable with the Land Vehicle Crew Training System virtual world enabling the dismounted soldiers, crews and detachments to conduct section/detachment operations in a platoon/troop context.

Requirements

The project will procure modern high fidelity simulators with the required network and visual capabilities to interact/integrate with the LVCTS virtual world for up to section level training in a platoon/troop context. All UWTS virtual simulators should, where possible, re-use and/or adapt the existing infrastructure space currently used by the Small Arms Trainers and Indirect Fire Trainers across Canada. The UWTS will address all individual and section level weapons training requirements from marksmanship to section assaults. The integration of other Army dismounted assets including but not limited to: FOO/FAC, dismounted reconnaissance and observation posts will be addressed under separate Service Level Agreements with other dismounted training systems requiring access to the common virtual world, as required. The high fidelity expected of these simulators will be focused on the individual weapons handling and firing competencies and dismounted section tactical operations.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2019
  - Options Analysis
- 2021
  - Definition Approval
- 2022
  - Request for Proposal Release
- 2023
  - Implementation Approval
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Unmanned Aerial Vehicle Recapitalization

New Systems

Objective

This project will recapitalize the Land Force tactical unmanned aerial vehicles.

Requirements

Replace the existing unmanned aerial vehicles with the next generation vehicles and payloads to improve the surveillance and reconnaissance capability beyond the line of sight of the land commanders.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2024
    - Options Analysis
- 2026 to 2035
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

LAND SYSTEMS - Weapon Effects Simulation Mid Life Upgrade

Replace Existing Systems

Objective

The Project will upgrade or replace the current hardware and software used by the Weapons Effects Simulation (WES) systems at Canadian Army bases. The Project will augment instrumentation and simulation equipment to increase the realism of joint collective training exercises. The Project will take advantage of technological advances to increase the effectiveness and efficiency of training and the After Action Review process.

Requirements

Potential project requirements and deliverables could include: improvements to soldier and vehicle WES equipment, integration of air assets, improved exercise control software and communications networks, expansion of communications coverage zones, integration with constructive and/or virtual simulations, and instrumentation at urban training sites.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2019
  - Definition Approval
- 2020
  - Request for Proposal Release
- 2021
  - Implementation Approval
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

AREOSPACE SYSTEMS - 1 CFFTS Tactical Mission Training System Replacement

Replace Existing Systems

Objective

To provide the Royal Canadian Air Force (RCAF) with the capability to train Air Combat Systems Officers (ACSOs) and Airborne Electronic Sensor Operators (AESOps) to the level required for employment on modern military ISR platforms.

Requirements

The current TMTS system consists of a 24-seat simulator and the CT-142 (modified Dash-8) aircraft. As the Royal Canadian Air Force acquires new platforms with advanced sensor capabilities, the future TMTS must provide a realistic training environment coupled with advanced sensor capabilities to ensure candidates are qualified to operate in a modern battlespace. The TMTS must have the capability for GPS/INS, Electro-Optic Systems, SATCOM, Synthetic Aperture Radar and Transport Canada required navigation systems for IFR flight. Acoustic sub-systems such as passive and active sonobuoys must be available.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2016
  - Definition Approval
- 2018
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2020
  - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Advanced Short Range Missile

Replace Existing Systems

Objective
To acquire an advanced short range air-to-air weapon for the CF-188.

Requirements
An advanced short range missile to replace the AIM-9M is required to counter emerging threats. This is an outstanding requirement from the CF-188 Incremental Modernization Program. Due to funding pressures during the program, the previously identified capability deficiency was never addressed. The new capability must provide an expanded engagement zone over the current AIM-9M and greater ability to overcome enemy countermeasures. The new weapon must also be supportable for the life of the CF-188 and the CF-188 replacement aircraft and provide interoperability with our allies.

Preliminary Estimate
- $250 million to $499 million

Anticipated Timeline
- 2016
  - Options Analysis
- 2017
  - Definition Approval
- 2019
  - Request for Proposal Release
- 2020
  - Implementation Approval
  - Contract Award
- 2025
  - Final Delivery

Point of Contact
Executive Director - Fighter Capability (EDFC)
Phone: 613-995-5673
Submit Your Ideas

AREOSPACE SYSTEMS - Aerodrome Support Equipment Modernization

Replace Existing Systems

Objective
To replace aerodrome ground support vehicles essential to air operations.

Requirements
This project will acquire replacement aerodrome support vehicles for Royal Canadian Air Force Main Operating Bases, such as tow vehicles and mules.

Preliminary Estimate
- Under $20 million

Anticipated Timeline
- 2017
  - Options Analysis
- 2018
  - Definition Approval
  - Request for Proposal Release
- 2019
  - Implementation Approval
  - Contract Award
- 2020
  - Final Delivery

Point of Contact
Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Aircrew Chemical Biological Radiological Nuclear Ensemble

Replace Existing Systems

Objective

To provide improved CBRN protection to ensure survival of deployed Tactical Aviation and Maritime Helicopter aircrew and enhance their ability to operate in a CBRN environment.

Requirements

The new CBRN ensemble will be composed of protective clothing, respirators, filter canisters and ancillary equipment. The ensemble must provide reduced weight, improved aircrew comfort and ease to operate within constricted cockpit environments. As rotary wing aircrew operate in close proximity to friendly forces, the new system must provide sufficient protection for aircrew to continue expeditionary operations in the future CBRN environment.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2019
  - Options Analysis
- 2021
  - Definition Approval
- 2023
  - Request for Proposal Release
- 2024
  - Implementation Approval
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Canadian Multi-Mission Aircraft

Replace Existing Systems

Objective

To equip the Canadian Armed Forces with a long-range manned Command, Control, Communications and Computers (C4) and Intelligence, Surveillance and Reconnaissance (ISR) aircraft with extended capabilities to replace the CP-140 Aurora.

Requirements

To meet the continuing and evolving mandate for advanced ISR capabilities, the Canadian Armed Forces needs a manned, long-range platform, capable of providing C4 ISR with the ability to engage/control and to fully integrate with other ISR assets. The Canadian Multi-Mission aircraft (CMA) project will provide the capability required to effectively support Canada's strategic requirements for C4ISR at home as well as to support Canada's interests abroad. Canada's large size necessitates an aircraft with long range and loiter times to ensure the platform can transit to operating areas and remain on station for sufficient time.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2022
    - Definition Approval
- 2024
    - Definition Approval
    - Request for Proposal Release
- 2025
    - Implementation Approval
    - Contract Award
- 2026 to 2035
    - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - CC-130J Block 8 Upgrade

In-Service Support

Objective

The CC-130J upgrade will ensure compatibility with the future European and North American airspace requirements.

Requirements

The Global Implementation Plan of the International Civil Aviation Organization (ICAO) for the Future of Air Navigation (FANS) mandates specific equipment in order to fly in much of the airspace where the CC-130J operates. To comply with the Global Implementation Plan, the CC-130J requires Automatic Dependent Surveillance-Broadcast (ADS- B) and Future Air Navigation System 1A (FANS-1/A). ADS-B is a global surveillance technology for tracking aircraft that will be required equipment by 2017 in the European Union airspace and 2020 to operate in North America. FANS-1/A are avionics that provide direct data link communication between the pilot and the air traffic controller to include air traffic control clearances, pilot requests and position reporting. Air Traffic Oceanic Services require FANS-1/A for North Atlantic oceanic travel by 2018. This will ensure the Royal Canadian Air Force CC-130J is able to transit at optimum altitudes and routings, both in peacetime and in expeditionary operations.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2016
  - Definition Approval
- 2018
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - CC-138 Twin Otter Life Extension Project

New and Replace Existing Systems

Objective

This project will extend the life of the CC-138 Twin Otter beyond 2018, ensuring a continued Canadian Armed Forces (CAF) light transport capability in the Far North.

Requirements

As the first of four CC-138 Twin Otters will reach end of life by 2018, a life extension project to extend the ELE to at least 2025 must begin to replace key components of the aircraft. The project will replace CC-138 Wing Boxes, install Cockpit Voice Recorders/Flight Data Recorders and will provide improvements to enhance aircraft supportability. In addition, High Frequency Radios and aircraft spares will be acquired, along with improvements to existing training devices.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
  - Definition Approval
- 2017
  - Request for Proposal Release
  - Implementation Approval
  - Contract Award
- 2022
  - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - CC-144/150 Missile Warning and Infrared Countermeasures Project

New Systems

Objective

To install a missile approach warning and infrared countermeasures system in the CC-144 and CC-150 fleets.

Requirements

The project will provide a missile approach warning and infrared countermeasures self-protection system to defeat modern, man-portable infrared missiles systems for both the CC-144 fleet and the CC-150 fleet. The systems must be programmable based on the expected threat and possess a recording capability for intelligence analysis. It must provide protection for multiple engagements on a single mission and be fully automated for the crew.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Request for Proposal Release
- 2020
  - Implementation Approval
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - CC-150 Life Extension

Replace Existing Systems

Objective

This project will extend the estimated life expectancy (ELE) of the CC-150 Polaris beyond 2026.

Requirements

The strategic airlift, VVIP and air-to-air refueling capability are critical capabilities which must be extended beyond the current projected life of the CC-150. This project will upgrade all five CC-150 aircrafts with the avionics capabilities to operate in future domestic and international airspace and implement necessary engine and airframe modifications prior to an eventual Multi-Role Tanker Transport fleet replacement.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2018
    - Options Analysis
- 2021 to 2025
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2026 to 2035
    - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - ARCHIVED - CF-188 Defensive Electronic Warfare Suite

The CF-188 Life Extension 2025 project replaces this content.

Replace Existing Systems

Objective

To ensure the CF-188 remains viable in contested Electronic Warfare environments.

Requirements

This project will acquire advanced Jammers and expendables to ensure the continued relevance of the CF-188 until the Estimated Life Expectancy. The systems must build upon the current Defensive Electronic Warfare Suite systems, ensuring compatibility with the rest of the CF-188 avionics systems. Protection must be sufficient to allow CF-188 operations in high threat environments.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2017
  - Definition Approval
  - Request for Proposal Release
- 2018
  - Implementation Approval
  - Contract Award
- 2019
  - Final Delivery

Point of Contact

Executive Director - Fighter Capability (EDFC)
Phone: 613-995-5673
Submit Your Ideas

AREOSPACE SYSTEMS - ARCHIVED - CF-188 Follow-on Operation Flight Program

The CF188 Life Extension 2025 project replaces this content.

Replace Existing Systems

Objective

To acquire replacement Operation Flight Program software for the life of the CF-188.

Requirements

As the final CF-188 software load is currently planned to be delivered in 2017, this project is necessary to ensure continued relevance of the CF-188 weapons system throughout its life through continued Operational Flight Program updates. These updates will be on an approximate two year cycle, updating OFP software and associated avionic systems, such as the Defensive Electronic Warfare suite. Suppliers must be able to supply software code to the CF-188 flight simulator to ensure continued commonality between the aircraft and the simulation system.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2017
  - Definition Approval
  - Request for Proposal Release
- 2018
  - Implementation Approval
  - Contract Award
- 2019
  - Final Delivery

Point of Contact

Executive Director - Fighter Capability (EDFC)
Phone: 613-995-5673
Submit Your Ideas

AREOSPACE SYSTEMS - *ABSORBED* - CF-188 Life Extension 2025

Attention: *ABSORBED*
This project has absorbed CF188 Follow-on Operation Flight Program and CF188 Defensive Electronic Warfare Suite.

In-Service Support

Objective
In order to ensure there are no operational gaps in the Royal Canadian Air Force's fighter capability, the Department of National Defence is planning upgrades to extend the CF-188 fleet life expectancy to 2025. This project is linked with the delivery of the Future Fighter Capability Project.

Requirements
In order to ensure there are no operational gaps in the Royal Canadian Air Force's fighter capability, the Department of National Defence is planning upgrades to extend the CF-188 fleet life expectancy to 2025. This project is linked with the delivery of the Future Fighter Capability Project.

Preliminary Estimate
- $250 million to $499 million

Anticipated Timeline
- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2017
  - Request for Proposal Release
- 2018
  - Implementation Approval
  - Contract Award
- 2020
  - Final Delivery

Point of Contact
Executive Director - Fighter Capability (EDFC)
Phone: 613-955-5673
Submit Your Ideas

AREOSPACE SYSTEMS - Fighter Training Enhancements

Replace Existing Systems

Objective
To ensure the fighter aircraft training environment is optimized.

Requirements
This project is in pre-Identification and will build upon the existing CF-188 Advanced Distributed Combat Training System. It will target investment in advanced simulation architecture such as Live, Virtual, Constructive, thereby increasing overall training efficiency. LVC will allow the simulator to link to other Royal Canadian Air Force simulators across a distributed network, utilizing common industry protocols, such as High Level Architecture. In addition, it will link the simulator to live aircraft in a manner which is seamless to the CF-188 operator, greatly increasing the training value when utilizing live assets. The project will work in concert with the Canadian Advanced Synthetic Environment to ensure these enhancements are complementary to existing and future Royal Canadian Air Force weapons system simulations.

Preliminary Estimate
- $100 million to $249 million

Anticipated Timeline
- 2017
  - Options Analysis
- 2019
  - Definition Approval
- 2020
  - Request for Proposal Release
- 2021
  - Implementation Approval
  - Contract Award
- 2024
  - Final Delivery

Point of Contact
Executive Director - Fighter Capability (EDFC)
Phone: 613-995-5673
Submit Your Ideas

AREOSPACE SYSTEMS - CH-149 Cormorant Mid-Life Upgrade

In-Service Support

Objective

To extend the all-weather rotary wing search and rescue capability to at least 2040, to return the capability to the Trenton main operating base, and to provide capability improvements to enhance its overall mission effectiveness.

Requirements

This project will determine the most appropriate option to extend existing capability by assessing future supportability issues of the current CH149 Cormorant with respect to avionics, communications, ice protection, corrosion management and patient treatment area or by augmenting current capability by another means. Search and rescue capabilities are expected to be enhanced with the introduction of a new infra-red search capability. Aircraft sustainment may be improved in accordance with current Integrated Logistic Support analysis and anticipated failure rates. Training devices and publications are also expected to be updated to provide the transitional training for the initial cadre of aircrew and maintainers.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2016
  - Definition Approval
- 2017
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Complex Weapon

New Systems

Objective

This project will provide the RCAF with an advanced Air-to-Ground/Air-to-Surface weapons capability for CF-188 operations in a network-enabled environment.

Requirements

With the increasing array of target sets and the relatively limited carriage of a fighter aircraft, new weapons must provide multiple capabilities. This weapon will deliver more precise, flexible, and efficient payloads from greater standoff distances and operate in anti-access scenarios in the face of advanced threats. It will be multi-mode, allowing guidance to the target through multiple methods, ensuring all-weather capability. The weapon must also be in use on the chosen Future Fighter platform to reduce the cost of implementation.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2019
  - Definition Approval
  - Request for Proposal Release
- 2020
  - Implementation Approval
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Executive Director - Fighter Capability (EDFC)
Phone: 613-995-5673
Submit Your Ideas

AREOSPACE SYSTEMS - CT-114 Life Extension Beyond 2020

Replace Existing Systems

Objective
To replace and upgrade aircraft systems in order to extend the life of the CT-114 Tutor beyond 2020.

Requirements
This project will implement key upgrades to the aircraft to extend the estimated life of the Tutor beyond 2020. This is necessary as a risk mitigation effort due to the timeline of the Future Pilot Training Project and the likely event that the Air Demonstration aircraft will be chosen from the new training fleet. The upgrade may include replacing wing components, replacing the ejection seat with a zero/zero capability and improving the wheel brakes to allow operations at remote locations. This project is linked to the Snowbird Replacement Project.

Preliminary Estimate
- Under $20 million

Anticipated Timeline
- 2017
  - Options Analysis
- 2019
  - Definition Approval
  - Request for Proposal Release
- 2020
  - Implementation Approval
  - Contract Award
- 2025
  - Final Delivery

Point of Contact
Executive Director - Fighter Capability (EDFC)
Phone: 613-955-5673
Submit Your Ideas

AREOSPACE SYSTEMS - ARCHIVED - Fixed-Wing Search and Rescue

This content is archived because the Request for Proposals has been released or Contract Awarded.

Replace Existing Systems

Objective

To provide the Canadian Armed Forces (CAF) with a robust, yet cost effective capability that meets the level of service required to support the National Search and Rescue program and replace the CC130H and CC115 aircraft.

Requirements

The Fixed-Wing Search and Rescue (FWSAR) platform must have the capability to respond to an aeronautical or maritime search and rescue incident anywhere within the designated Canadian search and rescue area of responsibility, in all weather conditions. It must provide life-saving assistance through the aerial delivery of fully-equipped search and rescue technicians and/or equipment. It must have the capability to conduct electronic and visual searches while incorporating multi-spectral sensors in any terrain, day or night. Lastly, it must have the ability to carry, load, and unload the required palletized search and rescue equipment without specialized loading/unloading gear.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2015
  - Request for Proposal Release
- 2016
  - Implementation Approval
  - Contract Award
- 2023
  - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Future Fighter Capability

Replace Existing Systems

Objective

This project will seek to provide a capability to the Canadian Armed Forces (CAF) to conduct control of Canadian Airspace and contribute to Alliance/Coalition operations where/when directed after the retirement of the CF-188 currently planned for the 2025 timeframe. This project is linked with the delivery of the CF-188 Estimated Life Expectancy to 2025 project.

Requirements

The Future Fighter Capability project will provide the mandated Government of Canada aerospace and force employment capabilities necessary to apply airpower in multi-role operations, both nationally and internationally. This includes precision Air-to-Air (A/A), Air-to-Ground (A/G) and Air-to-Surface (ASu) capabilities, and non-traditional Intelligence, Surveillance and Reconnaissance (ISR) in the defence of Canada, North America and expeditionary operations.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2015 to 2017
  - Definition Approval
- 2017 to 2019
  - Request for Proposal Release
- 2018 to 2020
  - Implementation Approval
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Executive Director - Fighter Capability (EDFC)
Phone: 613-995-5673
Submit Your Ideas

AREOSPACE SYSTEMS - Future Pilot Training

Replace Existing Systems

Objective

To find a relevant, flexible, effective and affordable means of implementing and optimizing the training system to meet Canadian Armed Forces (CAF) pilot training objectives.

Requirements

The project must ensure a seamless transition with existing pilot training programs and an agile and flexible production level to meet future needs. Risk will be managed and control of pilot production will be maintained by the RCAF. The training must meet the unique challenges of the Canadian environment, adapt and optimize to meet future requirements, exploit technical advances to maintain relevance, maximize simulation and emulation to create efficiencies and provide value for Canada. All training options are being considered, from DND acquisition with Industry sustainment to full Industry service contract.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2017
  - Definition Approval
- 2019
  - Request for Proposal Release
- 2020
  - Implementation Approval
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Air Simulation & Training
Phone: 613-949-1966
Submit Your Ideas

AREOSPACE SYSTEMS - Griffon Limited Life Extension

In-Service Support

Objective

The project will extend the life of the CH-146 Griffon beyond the current Estimated Life Expectancy so that the aircraft can continue to be operationally relevant and remain a vital contributor to the readiness of the Canadian Army and the Canadian Special Operations Force Command units well into the future. The extension will bridge the gap until a replacement capability is acquired through the Tactical Reconnaissance Utility Helicopter project.

Requirements

The project will replace obsolete cockpit instrumentation and radios with components that are supportable to 2030 and possibly beyond. It may also include new digitally controlled engines as a package. Adaptation and integration of existing avionics and electronic flight instruments in the aircraft will enable an extension of the life of the Griffon weapon system. The flight simulators will be modified to conform to the fleet. Finally, the project will ensure integrated logistic support, supply of initial spares and training.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2016
  - Definition Approval
- 2018
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Joint Unmanned Surveillance and Target Acquisition System

New Systems

Objective

To acquire an unmanned aircraft system (UAS) weapon system to support Canadian Armed Forces (CAF) domestic and international operations.

Requirements

The near-real time beyond line of sight (BLOS) capability of an unmanned aircraft system (UAS) will significantly increase the persistence of airborne ISR, providing timely operationally relevant information, such that the Commander can use the information to make effective decisions. The UAS will complement existing ISTAR capabilities, increase maritime and Arctic domain awareness and provide precision force application in support of Land and Special Operations Forces. It is envisioned that the UAS capability will reduce the time between the discovery and request for precision strike and the delivery of the effect. Additionally, the improved situational awareness will provide Commanders and the Whole of Government with better decision support for both domestic and expeditionary missions.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2017
  - Definition Approval
- 2018
  - Request for Proposal Release
- 2020
  - Implementation Approval
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Long Range Air-to-Air Missile

New Systems

Objective
To acquire a long range air-to-air missile for the Fighter capability.

Requirements
An advanced long range missile will ensure Royal Canadian Air Force (RCAF) fighter aircraft maintain the ability to employ weapons in contested environments of the future. The weapon must be compatible with the chosen replacement fighter for the CF188. It must be interoperable with our Allies in both NORAD and Coalition operations.

Preliminary Estimate
- $250 million to $499 million

Anticipated Timeline
- 2026 to 2035
    - Options Analysis
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
    - Final Delivery

Point of Contact
Executive Director - Fighter Capability (EDFC)
Phone: 613-995-5673
Submit Your Ideas

AREOSPACE SYSTEMS - Low Collateral Damage Weapon

New Systems

Objective
To acquire a low collateral damage weapon for the CF-188.

Requirements
A low collateral damage weapon allows employment in urban and politically sensitive operations with reduced likelihood of unintended weapons effects. The weapon must provide weapons effects with a footprint less than a 500lb General Purpose bomb. It must also be compatible with the CF-188 and the Future Fighter aircraft.

Preliminary Estimate
- $50 million to $99 million

Anticipated Timeline
- 2016
  - Options Analysis
- 2017
  - Definition Approval
  - Request for Proposal Release
- 2018
  - Implementation Approval
  - Contract Award
- 2020
  - Final Delivery

Point of Contact
Executive Director - Fighter Capability (EDFC)
Phone: 613-995-5673
Submit Your Ideas

AREOSPACE SYSTEMS - Medium Range Air-to-Air Missile Sustainment

Replace Existing Systems

Objective
To maintain sufficient stocks of Advanced Medium Range Air-to-Air Missiles (AMRAAM).

Requirements
Sufficient stocks of advanced air-to-air missiles are required to maintain the Defence of Canada/NORAD mission. The project will replace the semi-active radar homing missiles with the available version of the active radar homing AMRAAM. Current production versions of the AMRAAM will allow the CF-188 to continue to fulfill the Defence of Canada/NORAD mission.

Preliminary Estimate
- $250 million to $499 million

Anticipated Timeline
- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2018
  - Implementation Approval
  - Request for Proposal Release
- 2019
  - Contract Award
- 2021
  - Final Delivery

Point of Contact
Executive Director - Fighter Capability (EDFC)
Phone: 613-995-5673
Submit Your Ideas

AREOSPACE SYSTEMS - *NEW* Multi-Band Radio Crypto Modernization

New Systems

Objective

The objective of the Multi-Band Radio Crypto Modernization project is to ensure the RCAF's ability to maintain airborne multi-band communications that support changing international cryptographic standards.

Requirements

The project must provide a seamless transition from existing radios using retiring internal cryptography to modernized revisions capable of supporting changing international security standards. The project must modernize those radios relying upon internal encryption methods to ensure interoperability within DND as well as with partner nations requiring increased security standards to protect sensitive information across voice communications.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2016
  - Definition Approval
- 2018
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2021
  - Final Delivery

Point of Contact

Director Air Domain Development
Phone: 613-995-3344
Submit Your Ideas

AREOSPACE SYSTEMS - Multi-Fleet Air Traffic Management Avionics

Replace Existing Systems

Objective
To replace avionics systems to allow operations in future domestic and international airspace.

Requirements
With impending changes to domestic and international airspace rules, all aircraft fleets require numerous avionics upgrades. These upgrades consist of Performance Based Navigation certified GPS, Automatic Dependent Surveillance Broadcast datalinks, Mode S transponders to operate in civilian controlled airspace; and Mode 5 Identification Friend or Foe to participate in coalition operations.

Preliminary Estimate
- $250 million to $499 million

Anticipated Timeline
- 2016
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Request for Proposal Release
- 2020
  - Implementation Approval
  - Contract Award
- 2025
  - Final Delivery

Point of Contact
Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Multi-Role Tanker Transport

Replace Existing Systems

Objective
To acquire a replacement for the CC-150 Polaris.

Requirements
This project will replace the existing fleet capability, including strategic airlift, air-to-air refueling and VIP transport after a potential life extension. The platform will provide air-to-air refueling for both domestic and expeditionary coalition operations, while complementing the strategic airlift capabilities of the CC-177 fleet. This project is pending the result of the evaluation to replace the CF-188, due to different fuel receiving systems in use by various fighter aircraft.

Preliminary Estimate
- $500 million to $1.5 billion

Anticipated Timeline
- 2018
  - Options Analysis
- 2020
  - Definition Approval
- 2021 to 2025
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact
Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Navigation Landing Aids

New and Replace Existing Systems

Objective

The project will modernize Royal Canadian Air Force airfield navigation aids to ensure their continued ability to meet the needs of the RCAF in support of air operations.

Requirements

Requirements will be tailored to meet the needs of the military air fleets as they evolve their navigation requirements to remain current in Canadian and global air navigation networks.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2021
  - Final Delivery

Point of Contact

Director Air Domain Development
Phone: 613-995-3344
Submit Your Ideas

AREOSPACE SYSTEMS - North Warning System Replacement

Replace Existing Systems

Objective

To replace aging, Canadian-based, North American Aerospace Defense Command (NORAD) North Warning Systems and equipment in use beyond their estimated life expectancy.

Requirements

The NWS Project will provide operational capabilities to ensure the security of Canadian citizens and help exercise Canada's sovereignty as per the mandated Missions of the Canada First Defence Strategy and bi-national NORAD agreement.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2020
  - Options Analysis
- 2021
  - Definition Approval
- 2023
  - Request for Proposal Release
- 2024
  - Implementation Approval
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Director Air Domain Development
Phone: 613-995-3344
Submit Your Ideas

AREOSPACE SYSTEMS - Omnibus Aviation Life Support Equipment Modernization

Replace Existing Systems

Objective

The objective of Omnibus Aviation Life Support Equipment Modernization (OALSEMP) is to provide RCAF aircrew with a systems engineered solution that provides improved immersion protection and improved survival vest capability with significantly improved thermal management.

Requirements

OALSEMP consists of two sub-projects: Multi-fleet Constant Wear Immersion Suit System (MF-CWISS) and Multi-fleet Aircrew Survival Vest System (MF-ASVS). Target fleets for MF-CWISS are all Rotary Wing fleets, while the targets for MF-ASVS are Rotary Wing Fleets plus the CC130, CC177 and Long Range Patrol fleets.

As the RCAF operates regularly over extremely cold maritime areas, the ability to safeguard aircrew in the event of water entry is critical. The new immersion suit system must provide improved immersed survival time over the current system, be significantly more robust, less bulky and provide improved thermal management to reduce crew fatigue when not immersed. The new survival vest system must provide integrated crew restraint, hoisting, flotation, body armour and load carriage capability, with reduced bulk and weight and improved thermal management as compared to in-service systems. The survival vest system must be modular and re-configurable. The two systems must complement each other and be compatible with all aircrew stations and other ALSE. The level of robustness and thermal management must be such that the system can be utilized for pre-, post- and in-flight activities without risk to its immersion protection capabilities or inducing undue fatigue.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2019
  - Definition Approval
- 2021
  - Request for Proposal Release
- 2022
  - Implementation Approval
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Omnibus Support Vehicle Replacement 2

Replace Existing Systems

Objective
To replace specialized ground support vehicles essential to air operations.

Requirements
This project will recapitalize ground support vehicles required to ensure the continued day to day operations of the Royal Canadian Air Force fleets.

Preliminary Estimate
- $20 million to $49 million

Anticipated Timeline
- 2019
  - Options Analysis
- 2020
  - Definition Approval
- 2021
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2025
  - Final Delivery

Point of Contact
Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - On-Scene Control Emergency Response Modernization

Replace Existing Systems

Objective

To acquire a replacement capability for the nine On-Scene Control Emergency Response (OSCER) vehicles.

Requirements

OSCER vehicles are deployed to incident/accident sites. The OSCER Officer on site acts as an On-Scene Controller for the Emergency Response Team. The OSCER vehicles must be equipped for operation in many diverse locations from urban to rural in all kinds of weather conditions, including natural disasters. They must be equipped with robust suite of communications. Reliable and easily accessible communications are required for the OSC in order to complete the assigned taskings within the CF community, or while offering the appropriate assistance to civil authorities.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2016
  - Definition Approval
- 2018
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2019
  - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Precision Landing Aid

Replace Existing Systems

Objective

The project will modernize Royal Canadian Air Force airfield precision approach landing aids to ensure their continued ability to meet the needs of the RCAF in support of air operations.

Requirements

Requirements will be tailored to meet the precision approach needs of the military air fleets as they evolve their precision approach capabilities to remain current in Canadian and global air navigation networks.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2021
  - Final Delivery

Point of Contact

Director Air Domain Development
Phone: 613-995-3344
Submit Your Ideas

AREOSPACE SYSTEMS - Royal Canadian Air Force Aerial Fire Fighting Vehicle

Replace Existing Systems

Objective

To acquire a replacement capability for the nine On-Scene Control Emergency Response (OSCER) vehicles.

Requirements

This project will acquire Aerial Fire Fighting Vehicles (AFFV) with an option to purchase more. The AFFV is required to fight multi-storey fires at Royal Canadian Air Force air bases, including the use of telescopic ladders. The AFFV is also required to respond to elevated height hazard incidents (including fires in ammunition and fuel containment areas), elevated search and rescue situations, casualty evacuation at height and fire prevention operations at height across Main Operating Bases.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2015
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2017
    - Final Delivery

Point of Contact

Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Royal Canadian Air Force Simulation Implementation Project

New and Replace Existing Systems

Objective

This project will implement the Royal Canadian Air Force (RCAF) strategy for increased simulation use by building a common synthetic environment, providing the tools for scenario development and distributed exercise control and debrief, integrating targeted RCAF training devices and addressing training deficiencies identified via a comprehensive series of training needs analyses.

Requirements

This project will provide an integrated, distributed simulation-based training system for the RCAF consisting of a common distributed training network with a centralized exercise control and debrief capability (Distributed Mission Operations Centre (DMOC)). It will provide a common scenario development capability and a common exercise data generation capability. The project will acquire new devices as necessary, while integrating new and existing training devices into the distributed simulation-based training system.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2015
  - Option Analysis
- 2016
  - Definition Approval
- 2018
  - Request for Proposal Release
- 2019
  - Implementation Approval
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Air Simulation & Training
Phone: 613-949-1966
Submit Your Ideas

AREOSPACE SYSTEMS - Search and Rescue Mission Management System Replacement

Replace Existing Systems

Objective

To improve the Search and Rescue Command and Control capability by modernizing its Mission Management System and its underlying supportability.

Requirements

This project will replace the current SARMASTER software and hardware while providing reliable backup Site capability. It will provide interface capability to accept “live data” and the Geographic Information System (GIS). Lastly, the software will include long term support to ensure continued SAR operational readiness.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Definition Approval
- 2017
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2020
  - Final Delivery

Point of Contact

Director Air Domain Development
Phone: 613-995-3344
Submit Your Ideas

AREOSPACE SYSTEMS - Snow and Ice Control Capability Recapitalization Project

Replace Existing Systems

Objective
To replace the existing Snow and Ice Control (SNIC) vehicle fleet.

Requirements
This project will recapitalize the existing fleet of Snow and Ice Control vehicles. This includes snow plows, sweepers and snow blowing vehicles, all of which are critical to Royal Canadian Air Force winter operations.

Preliminary Estimate
- $50 million to $99 million

Anticipated Timeline
- 2017
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2025
  - Final Delivery

Point of Contact
Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Snowbird Aircraft Replacement Project

Replace Existing Systems

Objective

To satisfy the operational requirement to provide the mandated Government of Canada aerobatic air demonstration capability to Canadian and North American audiences.

Requirements

This project will continue the proud tradition of Canada's Snowbirds as an air display capability and a key recruitment tool for the Canadian Armed Forces. Snowbird Aircraft Replacement Project (SARP) is linked to the CT-114 Life Extension Beyond 2020 project and may also be linked to the solution for Future Pilot Training, which is due to replace NATO Flying Training in Canada in the 2020 period. The chosen platform must be configurable to the 431 (AD) Squadron standard, including a smoke system, luggage capability and a unique paint scheme. The platform must also be interchangeable with the training fleet to ensure the hard demands of show performances can be distributed throughout the aircraft fleet.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2016
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Request for Proposal Release
- 2022
  - Implementation Approval
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Executive Director - Fighter Capability (EDFC)
Phone: 613-995-5673
Submit Your Ideas

AREOSPACE SYSTEMS - *NEW* SONOBUOYs AN/SSQ 62E DICASS Contract

New Systems

Objective

The objective of this contract is to procure AN/SSQ 62E Directional Command Active Sonobuoys System (DICASS).

Requirements

The AN/SSQ-62E are the standard in-service DICASS sonobuoys utilized and required for various operations by the Canadian Armed Forces.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Request for Proposal Release
  - Contract Award
- 2020
  - Final Delivery

Point of Contact

Director Aerospace Equipment Programme Management, Maritime
Phone: 819-939-4095
Submit Your Ideas

AREOSPACE SYSTEMS - Tactical Integrated Command, Control and Communications

Replace Existing Systems

Objective

The Tactical Integrated Command, Control and Communications Air Project (TIC3 Air Project) will provide the ability to network with different organizations, systems and platforms through data links, secure and non-secure communication systems.

Requirements

The project will provide a domestic Air Force Link-16 Tactical Data Link (TDL) infrastructure composed of fixed and/or mobile Ground Entry Sites (GES), as well as a replacement Ground-Air-Ground (G/A/G) radio technology to all fixed Air Force ground locations for Air Defence and Air Traffic Management, permitting interoperability with onboard systems. It will also provide Link 16/TDL capabilities for air and ground platforms, including the movement of streaming video data from airborne platforms to designated Air Force command and control centres and the means to distribute, store and view both in real-time and non-real time.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2016
    - Definition Approval
- 2017
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2023
    - Final Delivery

Point of Contact

Director Air Domain Development
Phone: 613-995-3344
Submit Your Ideas

AREOSPACE SYSTEMS - Tactical Reconnaissance Utility Helicopter

Replace Existing Systems

Objective
To acquire a replacement capability for the CH146 Griffon.

Requirements
The TRUH project must provide a replacement for the fleet of CH 146 Griffon helicopters with an Initial Operational Capability prior to 2030. TRUH must have the ability to transport a 3500lb load in excess of 100kms at a minimum cruise speed of 140kts. It must also be equipped with weapons for self-protection and EO/IR sensors to enable operational missions day or night.

Preliminary Estimate
- More than $1.5 billion

Anticipated Timeline
- 2020
    - Options Analysis
- 2021 to 2025
    - Definition Approval
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2026 to 2035
    - Final Delivery

Point of Contact
Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Utility Transport Aircraft

Replace Existing Systems

Objective
To acquire a replacement for the CC-138 Twin Otter.

Requirements
This project will provide a small fleet of aircraft to conduct utility airlift operations, maintenance and training. It will ensure sufficient range to transit on an IFR flight with a standard Ranger load from Yellowknife to Iqaluit (and return) within a crew duty day. Cargo space and loading will be such that safe loading and unloading can be performed by the crewmembers themselves without additional personnel or equipment. The aircraft must permit take-off and landing on semi-prepared or gravel-surfaced runway in an austere environment (including Arctic). The aircraft must also demonstrate the capability for autonomous operations while deployed throughout the Arctic region, including a self-start capability after lengthy exposure to extreme Arctic temperatures.

Preliminary Estimate
- $500 million to $1.5 billion

Anticipated Timeline
- 2018
  - Options Analysis
- 2020
  - Definition Approval
- 2021
  - Request for Proposal Release
- 2022
  - Implementation Approval
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact
Director Air Requirements
Phone: 613-944-3293
Submit Your Ideas

AREOSPACE SYSTEMS - Voice Switch for Air Traffic Control Units

Replace Existing Systems

Objective

The project will modernize legacy switches that manage and integrate all voice communications within the Air Traffic Control (ATC) units at Royal Canadian Air Force (RCAF) Wings.

Requirements

ATC voice switches are required to interface with, control, and manage radio nets, intercoms, hot lines, conference lines, and telephone networks. Requirements will be tailored to meet the provision of air traffic services to military and civilian aircraft.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2021
  - Final Delivery

Point of Contact

Director Air Domain Development
Phone: 613-995-3344
Submit Your Ideas

AREOSPACE SYSTEMS - Weapon System Trainers

New Systems

Objective

This omnibus project will acquire new Weapon System Trainers for the CH149 Cormorant, CC150 Polaris, and CC177 Globemaster fleets.

Requirements

Weapon System Trainers provide integrated pilot and crew simulators for initial, recurrent and upgrade aircrew training. Cockpit trainers must be certifiable to ICAO Level Seven for Fixed Wing, and Level Five for Rotary wing fleets. The systems must also be designed with a flexible, open architecture so that they are easily upgradable to match planned and future aircraft modifications. The requirement includes courseware and device-based lesson plans.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2016
  - Definition Approval
- 2017
  - Request for Proposal Release
- 2018
  - Implementation Approval
  - Contract Award
- 2022
  - Final Delivery

Point of Contact

Director Air Simulation & Training
Phone: 613-949-1966
Submit Your Ideas

JOINT and OTHER SYSTEMS - Area Detection and Identification System

Replace Existing Systems

Objective

The Area Detection and Identification System (ADIS) project aims to provide an early-warning system for airborne chemical warfare agents and toxic industrial chemicals using standoff detection technologies. This project will exploit the Compact Atmospheric Sounding Interferometer Engineering Development Model (CATSI-EDM), a standoff detector developed and validated by Defence Research and Development Canada (DRDC) – Valcartier.

Requirements

Leveraging the existing CATSI-EDM technology, the ADIS project will facilitate the development and procurement of systems following prototype maturation. The contract will include personnel training, as well as two years of in-service support following final system delivery. CATSI-EDM provides a transportable, optical-based, standoff sensor system capable of detecting and identifying chemical substances at a distance. ADIS would be used to protect large areas such as bases, airfields and harbours. The system could also be used during reconnaissance and intelligence-gathering operations, with potential novel applications for explosives standoff detection.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
  - Request for Proposal Release
  - Contract Award
- 2019
  - Final Delivery

Point of Contact

Director Chemical, Biological, Radiological and Nuclear Defence & Operational Support
Phone: 613-996-8006
Submit Your Ideas

JOINT and OTHER SYSTEMS - *NEW* Automatic Identification Technology

New Systems

Objective

The Automatic Identification Technology (AIT) project is a departmental business transformation that will modernize the DND/CAF Defence Global Supply Chain. The project will be structured as an omnibus with multiple sub-projects that will be competed and delivered over the definition and implementation phases.

Requirements

The AIT project will modernize the Defence Global Supply Chain management practices and processes across the whole of DND/CAF including the application of technologies to enhance military operational support, increase financial accountability, asset visibility and materiel security as well as increase the efficiency and performance of the Defence Global Supply Chain. The project will introduce and implement supply chain management industry standard policies, disciplines, practices, processes, and technologies where they bring the greatest value and efficiencies into DND/CAF's Defence Global Supply Chain. The project will include supply chain process re-design, electronic identification of all applicable inventory and assets (marking or labelling) as well as the delivery of technologies that integrate with DND/CAF's enterprise resource planning (ERP) system to enable process automation.

Preliminary Estimate

- TBD

Anticipated Timeline

- 2015
    - Options Analysis
- 2020 to 2026
    - Implementation Approval

Point of Contact

Director Materiel Systems Plans & Requirements
Phone: 819-939-8586
Submit Your Ideas

JOINT and OTHER SYSTEMS - Biological Warfare Threat Medical Counter Measures

New Systems

Objective

An omnibus initiative to develop, acquire and stockpile safe biological warfare medical countermeasures that cover (where possible) the spectrum of prevention, diagnosis and treatment in order to maintain combat effectiveness and commanders' freedom of action by preventing personnel from becoming casualties as a result of biological warfare agent exposure and by providing timely and effective treatment to those who do.

Requirements

Acquire an initial stockpile of next-generation Biological Warfare Threat Medical (BW MED) countermeasures by receiving as deliverables, systems that are interoperable, medically acceptable, licensed whenever possible and sustainable and to contribute to the development of a capability that will allow Canadian Armed Forces (CAF), either independently or in concert with Canada's allies, to evaluate BW Med CM technologies and strategies working closely with Canadian industry when appropriate to facilitate Canadian industrial participation on joint BW MED CM development projects.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2019
    - Implementation Approval
    - Contract Award
    - Final Delivery

Point of Contact

Director Health Services Operations
Phone: 613-945-6668
Submit Your Ideas

JOINT and OTHER SYSTEMS - Canadian Defence Research Vessel

New and Replace Existing Systems

Objective

The objective of the project is to replace the current at-sea research capability.

Requirements

The Canadian Defence Research Vessel (CDRV) will provide the necessary at-sea capabilities to demonstrate new and evolve existing systems to a proven state in support of potential introduction to the fleet. The CDRV will have the capability to carry large and heavy prototype ocean going systems and to deploy, launch, tow and recover them using specialized cranes, winches and equipment. It would provide the ability to test the high-sensitivity sensor networks that are increasingly prevalent without acoustic and magnetic interference. Such capabilities are required for developing new sea-going systems for warships and also for conducting research in the ocean environment.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2016
  - Definition Approval
- 2018
  - Implementation Approval
  - Request for Proposal Release
- 2019
  - Contract Award
- 2021 to 2025
  - Final Delivery

Point of Contact

Director Research and Development Canada
Phone: 613-992-7237
Submit Your Ideas

JOINT and OTHER SYSTEMS - Canadian Forces Electronic Warfare Support

New Systems

Objective

This project will deliver an enhanced Electronic Warfare Data Repository (EWDR) for the Department of National Defence (DND).

Requirements

The increased exploitation of the electromagnetic environment by adversarial forces has a direct impact on the Canadian Armed Forces' (CAF) ability to operate in the surroundings in which they are tasked. The DND has a requirement to modernize its EWDR and analytical tool sets, so the CAF can maintain its operational effectiveness when tasked in a modern electromagnetic environment. To meet its requirements the DND will acquire an EWDR as well as a 20 years In-Service Support commitment commencing in 2021.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2016
  - Definition Approval
- 2017
  - Request for Proposal Release
- 2018
  - Implementation Approval
  - Contract Award
- 2021
  - Final Delivery

Point of Contact

Assistant Deputy Minister of Information Management
Phone: 613-995-2017
Submit Your Ideas

JOINT and OTHER SYSTEMS - Canadian Forces Health Information System

In-Service Support

Objective

Canadian Forces Health Information System (CFHIS) is a modern health information management system designed to ensure that the health records of all Canadian Armed Forces (CAF) members are effectively and securely managed. CFHIS is consistent with the emerging electronic health record movement across Canada and brings to the CAF a capability being developed by all of our allies. The objective of the In Service Support (ISS) contract is to ensure the continuity of ISS for the CFHIS contract for the ongoing maintenance and support of the existing technology as well as further continuing development and implementation of the solution.

Requirements

CFHIS consists of a suite of Commercial-Off-The-Shelf (COTS) software applications that support various functions including: patient registration and scheduling, medical documentation, diagnostic imaging, laboratory, and dental treatment. These applications are integrated to create a complete Electronic Health Record (EHR) for CAF members. At present, CFHIS has approximately 4,000 registered users located at 47 sites across Canada and internationally. Continued growth is expected by incorporating other potential user groups. In addition, a read-only copy of the Electronic Health Record (EHR) is utilized in deployed operational environments where DWAN connectivity does not exist or is intermittent. The ISS requirement is to provide services to maintain, update and expand the CFHIS and an ad-hoc requirement for the integration of other information systems operating in its business domain of Health Services.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
    - Request for Proposal Release
- 2016
    - Contract Award

Point of Contact

Assistant Deputy Minister of Information Management
Phone: 613-995-2017
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Canadian Moored Afloat Laboratory

This content is archived because existing capability is being maintained.

Replace Existing Systems

Objective

The Canadian Moored Afloat Laboratory (CMAL) will recapitalize the existing defence research Acoustic Calibration barge through the procurement of a moored afloat laboratory.

Requirements

To replace the Acoustics Calibration Barge, which Defence Research and Development Canada (DRDC) has operated in the Bedford Basin in Nova Scotia for more than 50 years, in order to continue providing a free-field salt water static facility primarily focused on the calibration and trial of acoustic sensors prior to deployment in a sea going test asset. It is also anticipated to be a cost effective and useful platform from which to conduct other types of experiments involving, but not limited to, the investigation of acquired (foreign or commercial) underwater systems and some autonomous systems support work, signature work, and UUV control work.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Options Analysis
  - Definition Approval
- 2016
  - Implementation Approval
  - Request for Proposal Release
- 2017
  - Contract Award
- 2020
  - Final Delivery

Point of Contact

Defence Research and Development Canada
Phone: 613-992-7237
Submit Your Ideas

JOINT and OTHER SYSTEMS - Canadian Special Operations Regiment Full Operational Capability - Equipment

New and Replace Existing Systems

Objective

The Canadian Special Operations Regiment (CSOR) Equipment project will provide the additional depth, flexibility and sustainment necessary for the Regiment to support the sustained deployment of robust task-tailored Special Operations Task Forces.

Requirements

The CSOR Equipment project will procure sufficient mission essential equipment to allow for the contribution to independent Special Operations Task Forces. CSOR must remain integrated and interoperable with CANSOFCOM elements and will leverage Canadian Armed Forces (CAF) items and/or procure commercial off-the-shelve or military off-the-shelf.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
  - Implementation Approval
  - Request for Proposal Release
- 2017
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director SOF Requirements 2
Phone: 613-998-4570
Submit Your Ideas

JOINT and OTHER SYSTEMS - Chemical, Biological, Radiological, Nuclear and Explosive Enhancement

New and Replace Existing Systems

Objective

The Chemical, Biological, Radiological, Nuclear and Explosive (CBRNE) Enhancement project will provide the necessary equipment to enable the Canadian Joint Incident Response Unit (CJIRU). This project will build upon and enhance existing capabilities and will allow CJIRU to sustain and force generate for its mandated CBRNE support tasks.

Requirements

The CBRNE Enhancement Project will procure systems currently in use by CJIRU as well invest in opportunities that will provide enhancement over the next several years. This initiative will be established in cooperation through existing agreements with Defence Research and Development Canada, the Directorate of CBRN Defence and Operational Support, other DND organizations, international partners as well as product improvements provided by industry and academia.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
  - Definition Approval
- 2016
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2020
  - Final Delivery

Point of Contact

Director SOF Requirements 2
Phone: 613-998-4570
Submit Your Ideas

JOINT and OTHER SYSTEMS - Commercial Pattern Armoured Vehicles

New and Replace Existing Systems

Objective

The project will deliver a fleet of Civilian Pattern Amoured Vehicles comprising of different variants, and integrated logistic support (to include initial cadre training and the first two years of in-service support).

Requirements

The project will procure civilian pattern amoured vehicles. The vehicles will provide a degree of crew protection in order to enable the conduct of a multitude of missions. The project will also provide the first two years of a nine year logistic support contract for the vehicles' equipment life expectancy.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
    - Implementation Approval
    - Contract Award
- 2017
    - Final Delivery

Point of Contact

Director SOF Requirements 2
Phone: 613-998-4570
Submit Your Ideas

JOINT and OTHER SYSTEMS - Computer Network Defence

New Systems

Objective

The Computer Network Defence (CND) Project will provide end-to-end technical solutions to support Defensive Cyber Operations, safeguarding Canadian Armed Forces (CAF) data confidentiality, integrity and availability ensuring freedom of movement with its information technology systems.

Requirements

The solution will enable the detection and analysis of all cyber suspicious activities supporting the decision making process for defensive cyber operations and enabling the appropriate response. The integration with the Network Command and Control Integrated Situational Awareness Capability (Net C2 ISAC) and the Cyber Security Architecture project will allow for faster reaction time and support automation of response for selected activities.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Request for Proposal Release
- 2020
  - Implementation Approval
- 2021 to 2025
  - Contract Award
  - Final Delivery

Point of Contact

Director Cyber Force Development
Phone: 613-947-9498
Submit Your Ideas

JOINT and OTHER SYSTEMS - Computer Network Operations Training

New Systems

Objective

The Computer Network Operations (CNO) training project will provide the supporting infrastructure and equipment to execute the recruitment, education and training of specialized elements of the Cyber Force.

Requirements

The project will examine a range of options based on specialized training facilities and IT hardware and software network that will be determined from the on-going examination of the defensive cyber training requirements.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2018
  - Definition Approval
  - Request for Proposal Release
- 2020
  - Implementation Approval
- 2023
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Director Cyber Force Development
Phone: 613-947-9498
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Construction and Road Maintenance

The Common Heavy Equipment Replacement replaces this content. This content is archived because it has been absorbed.

Replace Existing Systems

Objective

To improve the capability to conduct large-scale horizontal construction and to support theatre opening and closing and operational-level sustainment activities.

In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Common Heavy Equipment Replacement (CHER) and Enhanced Recovery Capability (ERC) projects.

Requirements

The Canadian Armed Forces (CAF) requires a capability to build and maintain roads on a large scale (i.e. 200km in 60 days).

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2019
  - Definition Approval

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

JOINT and OTHER SYSTEMS - Cyber Security Architecture

New Systems

Objective

The Cyber Security Architecture (CSA) Project will establish an overarching information technology infrastructure that will permit automated operations throughout the entire cyber terrain. This will be accomplished by implementing a security service orientated architecture that encompasses everything from CAF weapon systems to C2 and corporate enterprises.

Requirements

Key features of the security architecture would include: an end-to-end design with a standardised and controlled environment; defence aligned with the cyberspace to eliminated seams and gaps across the enterprise; provide, all elements within the Canadian Armed Forces (CAF) with a seamless and integrated access to enterprise resources and as well as allow for secure information sharing with mission partners.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2019
  - Definition Approval
- 2020
  - Request for Proposal Release
- 2021
  - Implementation Approval
- 2023
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Director Cyber Force Development
Phone: 613-947-9498
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Defence Cryptographic Modernization Project Identification Friend or Foe Sub-Project

New Systems

Objective

The Identification Friend or Foe (IFF) Mode 5 sub-project will provide modern IFF Mode 5 cryptographic devices to be used in conjunction with new IFF Mode 5 transponders and interrogators being implemented in Canadian Armed Forces (CAF) that meet the STANAG 4193 specifications. The primary objective for the IFF cryptographic modernization sub-project is to replace in-service Mode 4 cryptographic devices currently being used in conjunction with the IFF system.

Requirements

IFF devices are critical elements in the Electronic Warfare (EW) equipment suite and are found on aircraft, ships, tactical platforms and land-based radar sites to identify and classify friendly, neutral, and hostile targets of interest. The project will provide IFF mode 5 cryptographic devices capable of supporting a secure encrypted interrogation challenge in support of the interrogator role, and a secure response to a cryptographic interrogation in support of the transponder role. The devices will be compatible with next generation Common Fill Devices, the Classified Security Management Infrastructure, IFF Mode 5 waveform, and full backwards compatibility with existing Mode 4 devices. The device shall be capable of accepting both Black and Red key variables. This sub-project will only procure the cryptographic devices, thus will not be responsible for the replacement and integration of the IFF Mode 5 transponders and interrogators being implemented in CAF weapon platforms by other project initiatives.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
    - Contract Award
- 2018
    - Final Delivery

Point of Contact

Assistant Deputy Minister of Information Management
Phone: 613-995-2017
Submit Your Ideas

JOINT and OTHER SYSTEMS - Defence Cryptographic Modernization Project Secure Radio Sub-Project

New Systems

Objective

The Secure Radio (2012 – 2020) sub-project will examine the algorithm modernization requirement and identify legacy secure radios that will require cryptographic modernization upgrading or replacement.

Requirements

Under this sub-project of Defence Cryptographic Modernization Project (Defence CMP), deliverables will include the replacement of legacy VINSON and Advanced Narrowband Digital Voice (ANDVT) cryptographic devices as well as affected legacy handheld and man pack secure radios. During the implementation phase, this project will replace or modernize secure radios identified in scope for this project. In addition, this sub-project will ensure that any new DND project for secure radios adheres to the standards established by the Defence CMP. It could also include acquisition of modernization kits for affected secure radios on mobile platforms (yet to be determined). In addition, new COMSEC keying equipment and fill devices may need to be procured, including some test equipment.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2016
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2020
    - Final Delivery

Point of Contact

Assistant Deputy Minister of Information Management
Phone: 613-995-2017
Submit Your Ideas

JOINT and OTHER SYSTEMS - Defence Resource Management Information System In-Service Support

Replace Existing Systems

Objective

The Defence Resource Management Information System (DRMIS) is the system used by the Canadian Armed Forces (CAF) members and contractors to transact the business of supporting operations and training. It is the materiel and financial system of record as well as the system used to report performance. The objective of In Service Support (ISS) contract is to augment the CAF team supporting DRMIS, and to allow for further expansion of DRMIS in CAF.

Requirements

DRMIS is a complex implementation of SAP. The system is used by over 20,000 users in Canada, on RCN vessels, and abroad. DND has plans to further rollout DRMIS for real property management, for maintenance management of additional RCAF fleets, and for further expansion initiatives as required by the department. DRMIS ISS will assure continuity of adequate support.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
    - Request for Proposal Release
- 2016
    - Contract Award

Point of Contact

Assistant Deputy Minister of Information Management
Phone: 613-995-2017
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Deployable Firefighting Capability

The Logistics Vehicle Modernization replaces this content. This content is archived because this project has been absorbed by the Logistics Vehicle Modernization initiative.

New Systems

Objective

This project will deliver firefighting capability for austere environments requiring off-road movement as well as capacity to operate at long distances from a main supporting base.

In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Logistic Vehicle Modernization (LVM) project.

Requirements

The Canadian Armed Forces (CAF) requires an all-terrain capability for rapid firefighting, rescue, and extrication. Current systems do not provide force protection to the firefighters for non-permissive environments. Their mobility is limited to hard-packed surface as operations and training have demonstrated breakdowns during off-road movement. Capacity is also limited in terms of volume of agent (water, foam) that can be transported which jeopardizes firefighting operations away from a main supporting base.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2018
  - Definition Approval
- 2020
  - Implementation Approval
  - Request for Proposal Release

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Deployable Operational Level Bulk Fuel Storage and Petroleum Quality Surveillance/Assurance

The Logistics Vehicle Modernization replaces this content. This content is archived because this project has been absorbed by the Logistics Vehicle Modernization initiative.

New and Replace Existing Systems

Objective

The aim of this portion of the Canadian Armed Forces Operational Support Capability (CAFOSC) Program is to improve the CAF's ability to store, filter and distribute fuel, as well as conduct fuel testing, for a sustained Joint Task Force deployment.

In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Logistics Vehicle Modernization (LVM) project.

Requirements

This project will acquire a deployable main bulk fuel capability for the storage and issue of large volumes of fuel for both aviation assets and ground vehicles and equipment. The capability must meet requirements for operations in any environment, in terms of transportability, weather extremes, and the simultaneous issue of fuel to multiple vehicles and aircraft. A deployable petroleum quality assurance testing/surveillance capability is a key component of the deployable bulk fuel capability.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2018
  - Options Analysis
- 2019
  - Definition Approval
- 2021 to 2025
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

JOINT and OTHER SYSTEMS - Develop/Deploy a Corporate Biometric Capability

New and Replace Existing Systems

Objective

To digitize existing paper fingerprints, to establish a process for ongoing digital fingerprint capture and to establish a digital fingerprint repository that is interoperable with the Royal Canadian Mounted Police (RCMP) fingerprint verification system.

Requirements

There is a need to transition from a hardcopy-based Biometric Collection and Identity Management Capability to improved digital capability in the Canadian Armed Forces (CAF) and the Department of National Defence (DND). The RCMP is in the process of transforming the current paper-based workflow to an electronic workflow, enabling the "real-time" identification of fingerprints that are submitted electronically. The overarching business outcome is to provide DND with more effective means to manage screening and identity management. In order to achieve this, there must be improved mechanisms to collect, manage, verify and lifecycle identity information. The principal business outcome is to provide CAF with biometric capabilities that will support identity management, security, and policing functions.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2014
  - Update
  - Options Analysis
- 2015
  - Definition Approval
  - Implementation Approval
  - Request for Proposal Release
- 2016
  - Contract Award
- 2017
  - Final Delivery

Point of Contact

Director Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance Requirements
Phone: 613-995-1401
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Enhanced High Readiness

The Camp Sustain replaces this content. This content is archived because it has been absorbed.

New and Replace Existing Systems

Objective

This portion of the Canadian Armed Forces Operational Support Capability (CAFOSC) Program will ensure the establishment of high readiness assets consisting of selected equipment suites and materiel stocks that are assembled in Pack-up Kits (PUK), and reserved to support rapid deployment and initial sustainment in support of High Readiness tasks.

Requirements

This effort will ensure assets for the early stages of various operations will be acquired, managed and positioned to ensure applicable NTM direction is attainable. This analysis will cut across various Capital Projects and 5F Model components including development, generation, management, employment, and support.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 22020
  - Options Analysis
- 2021
  - Definition Approval
- 2022
  - Implementation Approval
- 2023
  - Request for Proposal Release
- 2024
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Chemical, Biological, Radiological and Nuclear Defence & Operational Support
Phone: 613-996-8006
Submit Your Ideas

JOINT and OTHER SYSTEMS - Enhanced Information Technology Infrastructure

New Systems

Objective

Over the past ten years, DND/CAF's information technology infrastructure (ITI) has evolved in a somewhat ad hoc manner without an overarching architectural vision. This has resulted in an inefficient delivery of services across the enterprise, and in rigid systems that are often too inflexible to meet operational requirements. As well, the establishment of independent and isolated systems to handle different classifications has increased ITI support costs while impeding the flow of information. The Enhanced Information Technology Infrastructure project (E-ITI) will enhance the structure and delivery of DND/CAF ITI in order to address identified deficiencies and to provide the enterprise with more agile and flexible ITI services. The transformed ITI will be more adaptable to changing circumstances, will provide improved support to operations, and will make more efficient use of limited ITI support resources.

Requirements

The Project requires specialized knowledge and expertise to define and implement ITI capability enhancements within the department. Deliverables include the following: Information Technology Service Management (ITSM), which will implement coordinated ITSM processes across the department; Service Oriented Architecture, which will transform the department's ITI to a more modular and flexible approach; Enterprise Services Extension, which will improve the extension of enterprise services to deployed operations; and Multi-Level Security, which will implement capabilities to allow information with various classifications to securely share common ITI.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2019
  - Definition Approval
- 2021
  - Implementation Approval
  - Request for Proposal Release
- 2022
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Assistant Deputy Minister of Information Management
Phone: 613-995-2017
Submit Your Ideas

JOINT and OTHER SYSTEMS - Fragmentation Vest Contract

Replace Existing Systems

Objective

The Canadian Armed Forces (CAF) will replenish its holding of fragmentation vests to address CAF requirements.

Requirements

The new fragmentation vests will include an improved soft armour carrier addressing feedback received during recent military operations. The new vests will be fully compatible and interchangeable with the current in-service vest and soft armour system. The contract will include deliverables of vests (carriers and soft-armour) in Canadian Disruptive Pattern - Temperate Woodland (CADPAT(TW)) and Canadian Disruptive Pattern - Arid Regions (CADPAT(AR)), as well as spare carriers and soft-armour.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Request for Proposal Release
- 2016
  - Contract Award
- 2018
  - Final Delivery

Point of Contact

Director Soldier Systems Program Management
Phone: 819-997-9768
Submit Your Ideas

JOINT and OTHER SYSTEMS - Health Care Providers Transformation

Replace Existing Systems

Objective

To ensure that there are procurement instruments in place that can be utilized on an "as required basis" to ensure that health care providers are available to provide various health care services to Canadian Armed Forces (CAF) members.

Requirements

The provision of health care providers to supplement military members and civilian personnel in delivering health care services to the CAF at various locations across Canada. The scope of the requirement is to include the associated financial and administrative management aspects.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2015
  - Request for Proposal Release
- 2016
  - Implementation Approval
  - Contract Award

Point of Contact

Director Health Services Operations
Phone: 613-945-6668
Submit Your Ideas

JOINT and OTHER SYSTEMS - Identity Credential Access Management

New Systems

Objective

The Canadian Armed Forces (CAF) Identity, Credential and Access Management (ICAM) Project will support a unique identity for each person and network devices accessing CAF information resources. A standardized and centrally managed identification and credentialing process will be instituted.

Requirements

The solution shall include an Enterprise-wide, unique identities management, a Centralized Identity repository, a Credential Management system, a Centralized Authentication and Authorization policy management and enforcement, a Centralized Logical Access Control system, an Integrated Physical Access Control system and Integrated Monitoring, Auditing and Reporting.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2017
  - Definition Approval
- 2019
  - Request for Proposal Release
- 2020
  - Implementation Approval
- 2022
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance Requirements
Phone: 613-995-1401
Submit Your Ideas

JOINT and OTHER SYSTEMS - *NEW* Improved Trail Snowshoe

New and Replace Existing Systems

Objective

The Canadian Armed Forces (CAF) will replace its holdings of snow shoes with an improved system to address CAF requirements.

Requirements

The improved trail snowshoe will address revised operational and training requirements for winter and arctic operations and training.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
  - Request for Proposal Release
- 2017
  - Contract Award

Point of Contact

Director Soldier Systems Program Management
Phone: 819-997-9768
Submit Your Ideas

JOINT and OTHER SYSTEMS - Information Technology Infrastructure in Support of Command and Control

New Systems

Objective

Over the past ten years, DND/CAF's information technology infrastructure (ITI) has necessarily evolved in a somewhat ad hoc manner without an overarching architectural vision. This has resulted in a collection of systems across the enterprise, many with a narrow scope and limited interoperability. The Information Technology Infrastructure in Support of Command and Control project (ITI in Sp of C2) will transform and enhance DND/CAF ITI in order to address identified deficiencies and to position the enterprise to address future challenges. The transformed ITI will be more efficient and responsive, less costly to support, and will enable more effective execution of command and control at all levels.

Requirements

The Project requires specialized knowledge and expertise to define and implement ITI capability enhancements to provide better support to command and control within the department. Deliverables include the following: Network Convergence, resulting in a reduction in overall infrastructure; Enhanced Interoperability, including improved information sharing internally and externally to the department; Technology Refresh, which will modernize and replace legacy systems to leverage new and emerging technologies; and Infrastructure Improvements, which will enhance the reliability and resiliency of the department's infrastructure.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Implementation Approval
  - Request for Proposal Release
- 2020
  - Contract Award
- 2026 to 2035
  - Final Delivery

Point of Contact

Assistant Deputy Minister of Information Management
Phone: 613-995-2017
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Information Technology Service Management

This content is archived because existing capability is being maintained.

New Systems

Objective

The Information Technology Service Management (ITSM) Project is focused on the effective and efficient management of Information Management (IM)/Information Technology (IT) by transforming the way that the Department of National Defence/Canadian Armed Forces (DND/CAF) manages and delivers its IT services across the enterprise. The intent of the initiative is to align the delivery of IT services to meet business and operational requirements by implementing common tools, processes, services, and standards. The Toolset and Process component will reduce the number of IT service management tools and implement a common ITSM toolset. The organizational restructuring component will consolidate and reduce the number of IT service centres currently operating in the DND/CAF. The objective is to implement a standard IT organizational design supported by standardized models for IT financial management and enterprise ITSM governance to better respond to business and operational demands. This effort will yield a streamlined IT organizational structure, a common funding model, standardized processes and tools to support service provider organizations.

Requirements

The Project requires specialized knowledge and expertise to define and implement an effective enterprise ITSM solution for the department. Deliverables include the following: Implementation of a Service Delivery Model including a consolidation of service centres under a primary IT service provider, rationalization of service providers at all sites, and a national/regional organizational structure; Creation of national processes and the implementation of a supporting toolset for managing the IT infrastructure and service delivery across DND/CAF; and Adoption of an Enterprise Service Catalogue with standardized services.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Definition Approval
  - Implementation Approval
- 2018
  - Final Delivery

Point of Contact

Assistant Deputy Minister of Information Management
Phone: 613-995-2017
Submit Your Ideas

JOINT and OTHER SYSTEMS - Integrated Relocation Program

Replace Existing Systems

Objective

The Integrated Relocation Program (IRP) is a unique program that employs a contracted agency to provide government entities, which include; Federal employees under the National Joint Council (NJC), Canadian Armed Forces (CAF) members, and Royal Canadian Mounted Police (RCMP) members, with flexibility and assistance to relocate Members/Employees (M/E) to new work locations in response to operational requirement. The aim of the IRP is to relocate M/E in the most efficient fashion, at the most reasonable cost to the public, while minimizing the impact on departmental operations, and on the M/E.

Requirements

The relocation services under the IRP are delivered through a contracted service provider that administers the provision of the relocation services in accordance with the approved TB policies for Federal employees under the NJC, CAF and RCMP, including but not limited to; relocation planning, marketing assistance, destination services and a variety of other relocation services. It should be noted that it excludes the physical movement of household furnishings and effects which is delivered under a separate contracts.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2016
    - Implementation Approval
    - Contract Award
    - Final Delivery

Point of Contact

Director Relocation Business Management
Phone: 613-996-1874
Submit Your Ideas

JOINT and OTHER SYSTEMS - Joint CBRN General Service Respirator

New Systems

Objective

The Joint Chemical, Biological, Radiological and Nuclear General Service Respirator (Joint CBRN GSR) project will replace the Canadian Armed Forces' C4 respirator and C7A filter with an improved system.

Requirements

The Joint CBRN GSR project will procure up to 77,800 CBRN respirator systems. The equipment will include the respirator system, spare parts, test equipment, training, documentation and accessories as required. The new system will provide better protection against a wider range of CBRN agents and toxic industrial materials, while also reducing the physiological and psychological burden on the user.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Request for Proposal Release
- 2016
  - Contract Award
- 2017
  - Final Delivery

Point of Contact

Director Chemical, Biological, Radiological and Nuclear Defence & Operational Support
Phone: 613-996-8006
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Joint Deployable Detained Persons Holding Facility

The Logistics Vehicle Modernization replaces this content. This content is archived because this project has been absorbed by Logistics Vehicle Modernization.

New Systems

Objective

This project will improve the capability for detained persons handling to support a Joint Task Force during deployed operations.

In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Logistics Vehicle Modernization (LVM) project.

Requirements

This project will provide a more rapidly deployable detained persons handling capability. This project will seek to reduce the time and resources required for establishing custody operations in order to support adherence to the Laws of Armed Conflict and reduce risks to both custodians and those in custody.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2018
  - Definition Approval
- 2019
  - Implementation Approval
  - Request for Proposal Release
- 2020
  - Contract Award

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Joint Deployable Potable Water Production and Distribution

The Advanced Sub-Unit Purification System replaces this content. This content is archived because this project has been absorbed by the Advanced Sub-Unit Purification System initiative.

Replace Existing Systems

Objective

The current water production systems, with the capacity to support large theatres, will be coming to the end of their life cycle. This project will provide a joint deployable potable water production/treatment, storage and distribution capability that will be able to support a deployed joint task force during sustained expeditionary operations.

In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Logistics Vehicle Modernization and ASUWPS projects.

Requirements

The operational level sustainment systems will treat, store and distribute bulk potable water required for drinking, medical, heat treatment, personal hygiene, shower, food preparation and laundry, as well as addressing water requirements for firefighting, construction, wash racks and decontamination.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2020
  - Options Analysis
- 2021 to 2025
  - Definition Approval
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Joint Heavy Engineering Equipment

The Common Heavy Equipment Replacement replaces this content. This content is archived because this project has been absorbed by the Common Heavy Equipment Replacement initiative.

Replace Existing Systems

Objective

This project will deploy operational support capabilities during expeditionary operations, whether domestic, continental or international. This capability will be capable of activating and operating extended lines of communication (LOC) from Canadian ports of embarkation to theatre ports of disembarkation, theatre opening including theatre set-up comprised of contract/support arrangements (national, multinational, and host nation), in-theatre force bed-down, and Reception, Staging and Onward Movement (RSOM) activities.

In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Common Heavy Equipment Replacement (CHER) and Enhanced Recovery Capability (ERC) projects.

Requirements

This capability will support horizontal construction tasks through the dozing, excavation, transport, grading and rolling of material for force accommodation and heavy equipment site preparation, including utilities construction support e.g. electrical distribution trenches, water and sewage systems. The capability will enable construction and clearance of obstacles, rubble and force protection earthworks. It will support CBRN Decontamination tasks, including area decontamination. It will be able to operate on rough terrain and off-road surfaces. This capability will be air transportable and be able to function effectively in both moderate and climate extremes.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2018
  - Implementation Approval
  - Request for Proposal Release
- 2019
  - Contract Award
- 2021 to 2025
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Joint Material Handling Equipment

The Common Heavy Equipment Replacement replaces this content. This content is archived because this project has been absorbed by the Common Heavy Equipment Replacement initiative.

Replace Existing Systems

Objective

This project will acquire a material handling capability to load and unload International Standards Organization (ISO) Containers and bulk materiel at intermodal transfer points as well as at main operating bases in support of deployed joint task forces.

In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Common Heavy Equipment Replacement (CHER) project.

Requirements

This project will provide an air-transportable capability that is able to operate on rough terrain and off road surfaces, and function effectively in both moderate and extremes of climate. This capability may include but is not limited to ISO Container Handlers, and forklift trucks for both hard-pack surfaces and rough terrain.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2018
  - Implementation Approval
  - Request for Proposal Release
- 2019
  - Contract Award
- 2021 to 2025
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Joint Special Purpose Heavy Lift

The Logistics Vehicle Modernization replaces this content. This content is archived because this project has been absorbed by Logistics Vehicle Modernization.

Replace Existing Systems

Objective

This project will acquire equipment to address shortfalls in operational-level sustainment activities requiring heavy ground transport. The Canadian Armed Forces (CAF) does not have sufficient special purpose heavy lift capable of supporting theatre opening and closing as well as sustainment activities at the operational level.

In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Logistics Vehicle Modernization project.

Requirements

A wide range of special purpose heavy lift capabilities are required to carry out operational-level sustainment activities. These include bulk liquid tankers for fuel and water, armoured buses or personnel transport pods, tractor trailers and Heavy Pallet-Loading Systems. Sufficient quantities are required to provide operational level support to a sustained CAF JTF deployment.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2020
  - Implementation Approval
  - Request for Proposal Release
- 2021 to 2025
  - Contract Award
  - Final Delivery

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Line of Communication Bridging Operations

The Bridge and Gap Crossing Modernization replaces this content. This content is archived because this project has been absorbed by the Bridge and Gap Crossing Modernization initiative.

New and Replace Existing Systems

Objective

To acquire Line of Communication Bridging capability to cross large gaps (dry or wet) in support of deployed joint task forces during deployed operations.

In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Bridge and Gap Modernization project.

Requirements

Joint Task Force elements are often required to cross large gaps for domestic operations and globally deployed operations to maintain freedom of movement and ensure sustainment of the lines of communication. This project will acquire bridging equipment of a higher capacity than current in-service items in order to enhance the mobility of current fleets, both combat and logistic. The project will also seek to reduce the soldier-handling and heavy equipment support burden required in the installation of current systems.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2019
  - Definition Approval

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

JOINT and OTHER SYSTEMS - Local Biological Defence System Project

New Systems

Objective

The Local Biological Defence System (LBDS) will enhance the Canadian Armed Forces' Detection, Identification and Monitoring (DIM) capabilities for biological warfare agents. It will also expedite confirmatory identification to enable rapid administration of agent-specific medical countermeasures.

Requirements

The LBDS project will procure portable, field-deployable biological agent detectors and complementary identification systems. The system must be capable of providing confirmatory identification through two independent technologies.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2019
  - Implementation Approval
- 2020
  - Request for Proposal Release
  - Contract Award
- 2021
  - Final Delivery

Point of Contact

Director Chemical, Biological, Radiological and Nuclear Defence & Operational Support
Phone: 613-996-8006
Submit Your Ideas

JOINT and OTHER SYSTEMS - Medium Earth Orbit Search and Rescue

New Systems

Objective

The Medium Earth Orbit Search and Rescue (MEOSAR) project will deliver a space segment, comprising up to 24 Search and Rescue (SAR) repeaters that will piggy-back on the satellites of the United States Air Force's (USAF) next-generation GPS III constellation. The project will also deliver a ground segment comprising satellite ground stations in Canada with specialised satellite tracking software and information processing systems.

Requirements

The MEOSAR repeaters, operating in Medium Earth Orbit, will deliver more precise coordinates during the coordination, execution and dispatch of Search And Rescue (SAR) resources; thus ensuring a more timely response to distress victims anywhere within Canadian Federal Area Of Responsibility. The project will also deliver a ground segment comprising satellite ground stations in Canada with specialised satellite tracking software and information processing systems. The two segments combined represent a significant improvement over the existing LEOSAR and GEOSAR systems. MEOSAR will contribute to the CFDS and the International COSPAS-SARSAT Programme Agreement (ICSPA) by significantly decreasing response times for SAR activities in Canada's three ocean approaches and the entire land mass. Every year, hundreds of lives are saved worldwide because of the international COSPAS-SARSAT space-based Search and Rescue (SAR) system.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2015
    - Definition Approval

Point of Contact

Director General Space
Phone: 613-945-5566
Submit Your Ideas

JOINT and OTHER SYSTEMS - Mercury Global - Strategic Deployable Terminals

New Systems

Objective

The Mercury Global (MG) Project will deliver military satellite communications (SATCOM) wideband capabilities that address beyond line of sight (BLOS) communications deficiencies globally (between 70 degree N and 70 degree S) by enabling SATCOM connectivity for domestic or international operations to meet the command and control (C2) needs of the Canadian Armed Forces (CAF).

Requirements

The MG Project will provide guaranteed access to high-capacity military reserved X and Ka-band frequencies. MG Project has three deliverables: an assured Space Segment access (completed); sovereign Anchor Station sites (contract was awarded 17 Nov 14); and Strategic Deployable Terminals (SDTs). These deliverables will assure CAF the needed SATCOM capacity, the worldwide availability, and maximum of flexibility to support CAF operations deployed domestically or internationally. The MG program has a Memorandum of Understanding (MOU) with the United States (US) Wideband Global SATCOM (WGS) Program that grants access to its wideband constellation. This will provide interoperability and strategic communications with other Government Departments and Allies. The final portion of the MG Project's deliverables is a series of terminals known as SDTs. These terminals complement the sovereign Anchor Station sites by supporting deployed CAF units with access to the space segment and sovereign ground entry sites with National Rear Link (NRL) connectivity, which is also referred to as the deployed headquarters' backhaul support.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2015
    - Request for Proposal Release
- 2016
    - Implementation Approval
    - Contract Award
    - Final Delivery

Point of Contact

Director General Space
Phone: 613-945-5566
Submit Your Ideas

JOINT and OTHER SYSTEMS - *NEW* Meridian Standard

New Systems

Objective

This is a project that will deliver improvements in DND/CAF's ability to conduct intelligence, surveillance and reconnaissance (ISR), as well as technical security.

Requirements

The current rapid technological advances occurring globally impacts the effectiveness of the CAF's ISR and technical security capabilities whereby obsolescence occurs very quickly. This project will deliver the necessary capabilities to effectively operate in a modern electromagnetic environment.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2019
  - Definition Approval
- 2020
  - Request for Proposal Release
- 2022
  - Implementation Approval
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Assistant Deputy Minister of Information Management
Phone: 613-995-2017
Submit Your Ideas

JOINT and OTHER SYSTEMS - Military Personnel Management Capability Transformation

Replace Existing Systems

Objective

The project will transform military human resources (HR) and pay policies, processes, procedures and tools by changing and updating key policies and implementing up-to-date integrated information management/information technology (IM/IT) enabler, based on PeopleSoft 9.1 (or newer version). The solution, Guardian, will deliver an integrated, modern and flexible approach to military personnel management.

Requirements

The solution will require contracted services support to the planning, business transformation, change management and initial implementation teams, and the acquisition of a Solution Integrator (SI) that will plan, design and implement the integrated Enterprise Resource Planning (ERP) solution to its Final Operational Capability (FOC). This FOC, using PeopleSoft, will cover several work packages such as, but not limited to, an upgrade of the Initial Operational Capability, implementation of pay, compensations and benefits, and other capabilities such as recruiting and appraisal.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2017
    - Implementation Approval
    - Contract Award
- 2020
    - Final Delivery

Point of Contact

Deputy Project Director MPMCT
Phone: 613-992-2133
Submit Your Ideas

JOINT and OTHER SYSTEMS - Modular Pack System Contract

New and Replace Existing Systems

Objective

The Canadian Armed Forces (CAF) will replace their load carriage equipment with the procurement of a new modular pack system to address Canadian Armed Forces load carriage requirements.

Requirements

The new modular pack system will provide a superior load carriage solution, replacing the in-service rucksack and small pack. The pack system will be a fully modular system comprised of a frame, a shoulder harness, and a variety of attachable bags or slings to address the load carriage requirement of various Canadian Armed Forces trades. Although the majority of modular pack systems will be utilized by the infantry, specialist bags for medics, snipers, and engineers will also be provided. The modular pack system will be required in Canadian Disruptive Pattern - Temperate Woodland (CADPAT (TW)) and Canadian Disruptive Pattern - Arid Regions (CADPAT (AR)).

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
  - Request for Proposal Release
- 2017
  - Contract Award
- 2018
  - Final Delivery

Point of Contact

Director Soldier Systems Program Management
Phone: 819-997-9768
Submit Your Ideas

JOINT and OTHER SYSTEMS - Network Command Control Integrated Situation Awareness Capability

New Systems

Objective

The Network Command and Control Integrated Situational Awareness Capability (Net C2 ISAC) will provide the end-to-end view of the status of network services which directly support operations in order to help ensure the confidentiality, availability and integrity of those services.

Requirements

The Project will identify key IT assets to monitor to determine the situational awareness. This includes an Intuitive User Interface, a Near-Real-Time High Quality Prioritized SA, a Continued interoperability with Allies and Partners and a Spanned Multiple Security Enclaves. The Project will build upon the existing capabilities that have been implemented by In-Service Support organizations to provide a holistic view of selected network services and their dependencies.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2019
  - Implementation Approval
  - Request for Proposal Release
- 2020
  - Contract Award
- 2021
  - Final Delivery

Point of Contact

Director Cyber Force Development
Phone: 613-947-9498
Submit Your Ideas

JOINT and OTHER SYSTEMS - Next Generation Fighting Vehicles

Replace Existing Systems

Objective

The Next Generation Fighting Vehicle (NGFV) will provide CANSOFCOM a tactical multi-role vehicle in the performance of their special operations specific and unique tasks and roles.

Requirements

The NGFV will procure a modern and diverse multi-role vehicle incorporating the prescribed equipment and weapons load, mobility, survivability of the crew and vehicle and sustainment inherently required in the execution of special operations tasks.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2017
  - Implementation Approval
  - Request for Proposal Release
- 2018
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director SOF Requirements 2
Phone: 613-998-4570
Submit Your Ideas

JOINT and OTHER SYSTEMS - Operational Clothing and Footwear Consolidation Contract

Replace Existing Systems

Objective

The Canadian Armed Forces (CAF) will implement a managed clothing solution for operational clothing and footwear known as the Operational Clothing and Footwear Consolidated Contract (OCFC2). This modern procurement vehicle will reduce contract management overhead, reduce inventory management and distribution costs, and provide improved responsiveness and support to the Canadian Armed Forces.

Requirements

The OCFC2 initiative will consolidate multiple individual contracts for operational clothing and footwear items into a single contract. This contract will be similar in nature to the consolidated contract already in place for CAF environmental service dress uniforms. For all items stipulated under the OCFC2 contract, the prime vendor will be responsible for their acquisition as well as inventory and distribution management. The contract will also include provisions for the development of a direct delivery system between the contractor and the individual military member for selected items.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2015
  - Request for Proposal Release
- 2016
  - Contract Award
- 2024
  - Final Delivery

Point of Contact

Director Soldier Systems Program Management
Phone: 819-997-9768
Submit Your Ideas

JOINT and OTHER SYSTEMS - Polar Communications and Weather

New Systems

Objective

The Polar Communications and Weather (PCW) Project is a Whole of Government (WoG) initiative to address broad priorities in the North. The objectives of PCW are to provide reliable narrowband SATCOM for tactical and highly-mobile operations, to provide reliable military and civil wideband SATCOM for large data and imagery transfer, to provide meteorological information for forecasting and to monitor climate change, and to provide space weather monitoring.

Requirements

The PCW Project will address broad Canadian priorities in the Arctic for high northern communications and weather. The PCW Project will provide a unique, narrowband and wideband communications capability to Canada and Canadian Armed Forces (CAF), an improved weather monitoring capability to support global weather forecasting, climate change monitoring, and sea ice forecasting. It will also provide a space weather observation capability to help monitor the effects of adverse space phenomena on terrestrial and space-based assets. This project will complement the Tactical Narrowband Satellite Communication Project if approved.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2016
  - Definition Approval
- 2018
  - Request for Proposal Release
- 2019
  - Implementation Approval
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director General Space
Phone: 613-945-5566
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Polar Epsilon 2

This content is archived because the request for proposals has been released or contract awarded.

Replace Existing Systems

Objective

Polar Epsilon 2 (PE2) will enhance existing Polar Epsilon (PE) capabilities by significantly increasing the Government of Canada's near-real time situational awareness of activities in Canada's three ocean approaches and through increased surveillance persistence of Canada's Arctic and global areas of interest.

Requirements

PE2 is a key enabler in a whole of government approach that builds upon Canada's heritage in space radar to meet Canada's strategic information requirements (defence, security, environment, natural resources, disaster management, etc). Specifically, PE2 will significantly increase the Canadian Armed Forces (CAF) near-real time situational awareness of activities in Canada's three ocean approaches and through increased surveillance persistence of Canada's Arctic and global areas of interest. By exploiting the RADARSAT Constellation Mission (RCM) satellites, PE2 will be a key enabler in the CAF's daily surveillance and reconnaissance operations, delivering significantly improved capabilities from 2018 onwards. The Government of Canada RCM is currently being designed to replace RADARSAT 2 as it reaches its minimum seven year design life in 2015.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2015
  - Implementation Approval
- 2017
  - Contract Award
- 2019
  - Final Delivery

Point of Contact

Director General Space
Phone: 613-945-5566
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Quarry Operations

The Common Heavy Equipment Replacement replaces this content. This content is archived because this project has been absorbed by the Common Heavy Equipment Replacement initiative.

New Systems

Objective

This project will acquire a capability to conduct quarry operations to support deployed/expeditionary operations. In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Common Heavy Equipment Replacement project.

Requirements

This project will provide a capacity to prepare various types of soil for road and airfield construction, bank preparation for crossing operations, and other construction of hard-pack surfaces. This capability will support the development of extended lines of communication (LOC) and enhance all other horizontal and vertical construction capabilities.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2019
  - Definition Approval

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

JOINT and OTHER SYSTEMS - Radiation Detection System

Replace Existing Systems

Objective

The Radiation Detection System (RDS) project aims to address equipment support issues related to existing equipment by acquiring and fielding a modern multi-purpose radiation detection system that offers improved detection, user interface and data reporting capabilities, while providing reductions in both size and weight.

Requirements

This project will replace three fleets of detectors currently in service with a single one, significantly improving capability and resulting in operational and in-service support efficiencies. It is currently estimated that the RDS project will procure up to 700 systems for use by the Canadian Armed Forces (CAF). The equipment will include the detector, spare parts, training, documentation and accessories as required (exact accessories depends upon the system selected for procurement).

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2016
  - Definition Approval
- 2017
  - Implementation Approval
- 2018
  - Request for Proposal Release
  - Contract Award
- 2020
  - Final Delivery

Point of Contact

Director Chemical, Biological, Radiological and Nuclear Defence & Operational Support
Phone: 613-996-8006
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Runway Repair

The Common Heavy Equipment Replacement replaces this content. This content is archived because this project has been absorbed by the Common Heavy Equipment Replacement initiative.

New and Replace Existing Systems

Objective

The aim of this project is to deliver the capability to conduct large-scale runway repair or construction, to provide or increase options for movement within, or selection of, a theatre of operations.

In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Combined Heavy Equipment Replacement (CHER) and Enhanced recovery Capability (ERC) projects.

Requirements

The capability will be required to conduct large-scale runway repair or construction including rapid repair of systems required to conduct air operations. Capability to be delivered by this project include the delivery of specialized equipment and skills for the construction of a runway system.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2018
  - Options Analysis
- 2019
  - Definition Approval
- 2020
  - Request for Proposal Release

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

JOINT and OTHER SYSTEMS - Scientific Equipment for the Human Domain

New and Replace Existing Systems

Objective

Provide Canadian Armed Forces (CAF) with the experimental and analytical equipment needed to address warfighter, command, system and medical effectiveness S&T challenges within military and security environments.

Requirements

To replace existing distributed, single-purpose, physiologically-focused research facilities with a new unique simulation capability that permits whole-human effectiveness research in realistic operational environments. The new facilities will permit the recreation of the range of austere environments where CAF members are expected to operate. This will be done through a combination of physical and virtual simulation. Data acquisition systems will enable the study of physiologic, cognitive and performance information to not only understand the human condition but also the subjects' ability to achieve operational goals.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2017
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2019
  - Final Delivery

Point of Contact

Defence Research and Development Canada
Phone: 613-992-7237
Submit Your Ideas

JOINT and OTHER SYSTEMS - Secure Configuration Management

New Systems

Objective

SCM is a security-focused configuration management concept that implements and maintains the established security requirements of the organization and information systems. Today's DND/CAF faces two enormous challenges: defence against sophisticated cyber-threats and maintaining compliance with government regulations (Policy on Government Security). The SCM capability will help achieve both objectives. The SCM capability will enable the reduction of networks' attack surfaces by delivering an automated capability to proactively and continuously harden the security configurations baseline of operating systems, applications, and network and security devices. At the same time, the SCM capability will enable the automation (monitor/auditing) of the compliance with mandated security baselines.

Requirements

The Project requires specialized knowledge and expertise to define and implement SCM capability enhancements within the department. Deliverables include the following: Compliance Management-Automated validation and enforcement of compliance to business, procedural and technical policies; System Integrity Assurance-Automated validation that managed hardware and software items have not been modified from a known state; Monitoring and Auditing-Automated logging of system events (with sufficient attribute granularity to support forensic analysis) and secure capture and storage of log files; Management-Automated methods of managing systems, including patch security policy management.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
  - Options Analysis
- 2017
  - Definition Approval
- 2019
  - Implementation Approval
  - Request for Proposal Release
- 2020
  - Contract Award
- 2022
  - Final Delivery

Point of Contact

Assistant Deputy Minister of Information Management
Phone: 613-995-2017
Submit Your Ideas

JOINT and OTHER SYSTEMS - *NEW* Signature Collection and Management Equipment

New Systems

Objective

This project will deliver equipment capable of supporting the validation and verification of existing data in the Canadian Electronic Warfare Centre Data Repository.

Requirements

The equipment that will be required to support the validation and verification of existing data is a comprehensive Electro Optic/ Infra-Red (EO/IR) collection suite that covers the entire useable EO/IR spectrum; a comprehensive Radio Frequency (RF) collection suite that covers the entire useable RF Spectrum; and a comprehensive Radar Cross Section measurement suite with a fully integrated high speed tracking system and pedestal. To meet its requirements the DND will acquire this equipment along with a 10 year In-Service Support commitment commencing at final delivery. The preferred delivery method will be through a single contract for all equipment.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2019
  - Definition Approval
  - Request for Proposal Release
- 2020
  - Implementation Approval
  - Contract Award
- 2022
  - Final Delivery

Point of Contact

Assistant Deputy Minister of Information Management
Phone: 613-995-2017
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Smart Energy and Power Management

The Tactical Power System replaces this content. This content is archived because this project has been absorbed by the Tactical Power System initiative.

New and Replace Existing Systems

Objective

This project will obtain a smart energy and power management capability to manage, generate, store and distribute energy to a deployed Canadian Armed Forces (CAF) task force or exercise.

In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Tactical Power Systems project.

Requirements

Current systems require improvement in generating clean, uninterrupted power and distributing it in an environmentally and energy-friendly way to reduce the CAF's energy and logistics footprint. Future energy systems will be required to reduce the CAF's reliance on traditional fossil fuels as an energy source for a deployed camp. The aim of this capability is to reduce sustainment demands at Main Camps and forward operating bases, reduce fuel and maintenance requirements, and reduce set-up time and energy costs. It must be modular and scalable to meet the requirements of various mission types and sizes.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2018
  - Definition Approval
- 2020
  - Implementation Approval
  - Request for Proposal Release

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Solid Waste Management in Operations

The Camp Sustain replaces this content. This content is archived because this project has been absorbed by the Camp Sustain initiative.

New Systems

Objective

This project will deliver solid waste management systems to support large, deployed operations or exercises. This project does not include ammunition and medical waste disposal.

In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Camp Sustain (CS) project.

Requirements

This project will obtain a capability to install, operate and maintain solid waste management infrastructure in support of deployed operations and exercises. This project will deliver systems to allow task forces to operate in austere environments and during the early and closing stages of deployed operations. These systems will enhance the Canadian Armed Forces (CAF) ability to conduct operational level sustainment activities through the use of incinerator and landfill systems with the appropriate level of stewardship of the environment.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2018
  - Definition Approval
- 2020
  - Implementation Approval
  - Request for Proposal Release

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

JOINT and OTHER SYSTEMS - Special Operations Task Forces Command and Control

New and Replace Existing Systems

Objective

The Special Operations Task Forces Command and Control Communication Information System (SOTF C2 CIS) project will optimize its C2 system using an integrated support model and a Service-Oriented Approach to deliver holistic C2 capabilities critical to Special Forces Operations.

Requirements

The project will integrate and sustain C2 CIS capabilities that support and enable the CANSOF mandate by delivering hardware, software and architecture work including professional services.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2014
  - Update
  - Options Analysis
  - Definition Approval
- 2015
  - Request for Proposal Release
  - Contract Award
- 2017
  - Implementation Approval
- 2020
  - Final Delivery

Point of Contact

Director SOF Requirements 2
Phone: 613-998-4570
Submit Your Ideas

JOINT and OTHER SYSTEMS - Surveillance of Space 2

New Systems

Objective

The Surveillance of Space 2 (SofS 2) will provide Space Surveillance data through a space-based and/or ground-based sensor system to the U.S. Joint Space Operations Center (JSpOC), the organization responsible for running the U.S. Space Surveillance Network (SSN). One of the many products derived from the JSpOC is Space Situational Awareness (SSA). SSA is key to enabling Canada to gain a clear understanding of the space order of battle.

Requirements

The SofS 2 Project will procure either a sensor or a system of sensors for the purpose of tracking man-made objects in Earth orbits having altitudes of 6000 km or greater above the surface of the Earth. This SSA sensor system will ensure the continuity of the capability currently being provided by the Sapphire satellite that was delivered by the Surveillance of Space Project.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2015
  - Options Analysis
  - Definition Approval
- 2018
  - Implementation Approval
  - Request for Proposal Release
- 2019
  - Contract Award
- 2023
  - Final Delivery

Point of Contact

Director General Space
Phone: 613-945-5566
Submit Your Ideas

JOINT and OTHER SYSTEMS - Tactical Narrowband SATCOM

New Systems

Objective

The Tactical Narrowband Satellite Communication (TNS) Project will, complete the Canadian Armed Forces (CAF) SATCOM Roadmap. The objective of TNS is to provide global Ultra-High Frequency (UHF) SATCOM, essential for Beyond Line Of Sight (BLOS) communications for tactical operations and highly-mobile platforms. In addressing its global aspect, the Arctic was directed to become a part of the TNS mandate. As a result, the Project Team will consider the addition of an Arctic specific solution to meet CAF requirements in the Canadian North (e.g. see Polar Communications and Weather Project).

Requirements

The TNS Project will provide guaranteed access to low-capacity UHF frequencies globally. TNS will deliver both assured Space Segment access as well as sovereign ground entry sites; thereby assuring the CAF the needed SATCOM capacity, the worldwide availability, and maximum flexibility to support CAF operations deployed domestically or internationally.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2016
    - Definition Approval
- 2019
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2023
    - Final Delivery

Point of Contact

Director General Space
Phone: 613-945-5566
Submit Your Ideas

JOINT and OTHER SYSTEMS - ARCHIVED - Waste Water Management

The Camp Sustain replaces this content. This content is archived because this project has been absorbed by the Camp Sustain initiative.

Replace Existing Systems

Objective

The current water waste management systems are approaching the end of their life cycle. This project will provide a joint deployable waste water management capability capable of supporting a deployed joint task force during sustained expeditionary operations.

In order to realize procurement efficiencies, this project will be incorporated into the Canadian Army Equipment Program. The requirements defined within this project will now be delivered by the Camp Sustain project.

Requirements

This project will deliver systems that can meet the operational level sustainment requirements for treating effluent to the appropriate standard as established by applicable regulations safeguarding the environment and the health of military members and civilians in a deployed setting. It will also be more energy efficient than current systems in keeping with the CAF's desire to reduce its energy costs and footprint for deployed operations.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2017
  - Options Analysis
- 2018
  - Definition Approval
- 2020
  - Implementation Approval
  - Request for Proposal Release

Point of Contact

Director Land Requirements
Phone: 819-994-4225
Submit Your Ideas

SERVICES - Aircraft Maintenance Support Equipment

In-Service Support

Objective

This contract will provide repair and overhaul services in support of Aircraft Maintenance Support Equipment (AMSE), including repair, overhaul, modifications, reduction to spares or scrap, Technical Investigation and Engineering Support (TIES), and related services.

Requirements

Aircraft Maintenance Support Equipment is utilized across Canada in support of 1 Canadian Air Division operations, as well as in theatre (most recently in Afghanistan). The fleets that depend on AMSE are extensive and they include the: Globemaster, Hercules, CF18 Hornet, Cormorant, Griffon, Aurora, Buffalo, Polaris, Challenger, Sea King, Twin Otter, and Dash-8. This contract therefore provides in service support to AMSE requirements for these fleets and their operations. Sole Source due to Intellectual Property Rights.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Request for Proposal Release
- 2017
  - Contract Award

Point of Contact

Director Aerospace Equipment Programme Management, Fighter and Trainers
Phone: 819-939-3900
Submit Your Ideas

SERVICES - ARCHIVED - Ammunition Safety And Suitability For Service Testing Capability

This content is archived because this is primarily an infrastructure project.

Replace Existing Systems

Objective

The upgrade of current infrastructure will provide a greater capacity for Munitions Experimental and Test Centre (METC) to conduct ammunition S3 testing in support of the growing Canadian Armed Forces demand for these types of tests. Additionally, acquiring new facilities will broaden the scope of S3 testing within METC and increase its capacity to conduct timely and cost effective testing.

Requirements

In order to have a fully encompassing range of ammunition S3 testing, METC will procure new facilities and equipment to meet established test requirements. This would include updates and enhancement on current METC infrastructure and trail sites. Moreover, it would upgrade current METC trial site installations which have some limitations in their capacity to meet client needs with regards to standard STANAG MOPI Tests. This will ensure proper capabilities for an appropriate response to the ongoing and future weapon and munitions replacement testing.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2020
    - Request for Proposal Release
- 2021 to 2025
    - Contract Award

Point of Contact

Quality Engineering Test Establishment
Phone: 418-844-4000 (4605)
Submit Your Ideas

SERVICES - Arctic/Offshore Patrol Ship and Joint Support Ship In Service Support Contract

In-Service Support

Objective

The Naval Shipbuilding Projects Office (NSPO) intends to establish an In-Service Support (ISS) Contract that combines the Arctic/Offshore Patrol Ships' and Joint Support Ships' ISS requirements into a single, 35-year through-life contract.

Requirements

The Project Management Offices (PMOs) for the Arctic/Offshore Patrol Ships (AOPS) and the Joint Support Ships (JSS) will deliver two new classes to the Royal Canadian Navy. The first AOPS is scheduled to be delivered in 2018 and the first JSS in 2019. Internal analysis and industry consultation support a single, combined, through-life, AOPS and JSS In-Service Support (AJISS) contract approach. Work is broadly defined within the following service delivery areas: management, documentation and information, engineering, logistics, and maintenance including docking work periods.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2015
    - Request for Proposal Release
- 2017
    - Contract Award

Point of Contact

Naval Shipbuilding Projects Office
Phone: 819-997-7742
Submit Your Ideas

SERVICES - Canadian Surface Combatant In-Service Support Contract

In-Service Support

Objective

The Canadian Surface Combatant (CSC) project management office intends to establish one or more In-Service Support (ISS) Contracts as part of the acquisition project, based upon the overall CSC Support Solution that will be defined.

Requirements

The CSC Project's objective is to recapitalize the Canadian Armed Forces surface combatant fleet by replacing the warfare capabilities currently residing with the Iroquois and Halifax Class ships, identifying and acquiring the necessary Integrated Logistics Support (ILS), and awarding In-Service Support contract(s). The CSC Support Solution comprises the sum of the services, resources and information required to properly support each CSC ship throughout its in-service life.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2021 to 2025
    - Contract Award

Point of Contact

Canadian Surface Combatant Project Management Office
Phone: 819-997-1448
Submit Your Ideas

SERVICES - CF18 Hornet Propulsion Group Sustainment (PGS) Contract

In-Service Support

Objective

The objective of this contract is to secure Repair and Overhaul (R&O) support for the F404 Propulsion Group (PG) of the CF188 Hornet aircraft. This is a pilot for the Sustainment Initiative and falls under the Defence Procurement Strategy with the goal to develop and demonstrate the benefits of Performance Based Best Practices. Industry Engagement shall be a key element in ensuring the requirements of Government and Industry are aligned.

Requirements

The Performance Based Enterprise-wide Sustainment System shall support the Royal Canadian Air Force's existing fleet of 77 CF188 Hornet aircraft which are operated from two main locations at 4 Wing Cold Lake, AB and 3 Wing Bagotville, QC. This contract shall include support to the F404-GE-400 engines, Secondary Power Systems (Auxiliary Power Units, Airframe Mounted Accessory Drive, Air Turbine Starters) and all associated accessories and modules. A Letter of Interest was posted on Buyandsell.gc.ca requesting Industry feedback on Performance Based Best Practices including the most effective and economical sustainment of the F404 PG for up to year 2025 as well as the optimal division of responsibilities between government and Industry. As such, a definitive scope of work has yet to be defined, but may include:

- Maintenance support including publications, training and field support;
- Engineering support including Configuration Management;
- Materiel Management; and
- Logistics Support.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2015
    - Request for Proposal Release
- 2016
    - Contract Award

Point of Contact

Director Aerospace Equipment Programme Management, Fighter and Trainers
Phone: 819-939-3900
Submit Your Ideas

SERVICES - ARCHIVED - CG634 Gen II Helmet Contract

This content is archived because the request for proposals has been released or contract awarded.

New and Replace Existing Systems

Objective

The Canadian Armed Forces will replenish its holding of combat helmets with a new generation of CG634 helmets that will incorporate newer material to reduce the overall weight of the helmet.

Requirements

The new helmets will be lighter while maintaining the ballistic protection afforded by the existing CG634 helmet. The new helmet must retain the same coverage and interior geometry of the in-service CG634 helmets, must remain fully interchangeable with in-service helmet components, and must be backwards compatible with currently-fielded CG634 accessory items.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2014
    - Update
    - Request for Proposal Release
- 2015
    - Contract Award

Point of Contact

Director Soldier Systems Program Management
Phone: 819-997-9768
Submit Your Ideas

SERVICES - Combat Rations Assembly Contract

Replace Existing Systems

Objective

The National Combat Rations Program (NCRP) is mandated to provide combat rations to support training and operations both domestic and overseas. The goal of the Combat Rations Assembly contract is to provide Individual Meal Packs (IMPs) and Light Meal Combat (LMC) packs to meet the NCRP's mandate.

Requirements

The Combat Rations Assembly Contractor will provide approximately one million IMPs annually and 75,000 LMCs bi-annually. The IMP and LMC consist of various food and non-food items packaged in an overwrap bag. The IMP and LMC components are procured by DND from various suppliers who then ship the components to the Assembler contractor. The Assembler contractor will also be responsible for procuring commercial components for use in the IMPs and LMCs. They will then insert all the individual components inside the IMP and LMC overwraps and package them for shipping. The intent is to award a contract with 5 year duration.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
    - Request for Proposal Release
- 2017
    - Contract Award
- 2022
    - Final Delivery

Point of Contact

Director of Material J4/Director of Food Services
Phone: 819-997-3894
Submit Your Ideas

SERVICES - *NEW* Consolidated Clothing Contract

In-Service Support

Objective

Following the completion of the existing contract period, the Canadian Armed Forces (CAF) will re-compete the requirement for the management of the supply chain, including procurement, warehousing and distribution of its environmental service dress (DEU) and similar items in order to provide a cost effective responsive supply chain to meet CAF requirements.

Requirements

For all items stipulated in the Consolidated Clothing Contract (C3) contract, the prime vendor will be responsible for program management, manufacturing or subcontracting, inventory management and tracking, warehousing, orders, receipts and distribution to CAF or other authorized personnel, quality assurance activities and program data management services. The contract will also include requirements for, but not be limited to, the provision of professional services such as configuration management; technical and engineering support services, general fabrication and small quantity production support activities in accordance with DND specifications and requirements.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2016
    - Request for Proposal Release
- 2018
    - Contract Award
- 2018 to 2020
    - Final Delivery

Point of Contact

Director Soldier Systems Program Management
Phone: 819-997-9768
Submit Your Ideas

SERVICES - Contracted Airborne Training Services

In-Service Support

Objective

The purpose of the Contracted Airborne Training Services (CATS) program is to deliver combat support services in a live-fly environment to exercise and train a modern, operationally capable, multi-purpose combat force that will be responsive to Canada's military needs.

Requirements

The Contracted Airborne Training Services program will seek a long-term contract of ten years, with additional option periods, which will provide the Canadian Armed Forces with approved and airworthy platforms, qualified crews, material, facilities, associated maintenance and engineering support and project management to support the delivery of efficient combat support services. These training services will be delivered at multiple locations across Canada and the United States.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2015
    - Request for Proposal Release
- 2016
    - Contract Award

Point of Contact

Director Major Procurements
Phone: 613-998-4350
Submit Your Ideas

SERVICES - Contracted Ammunition, Explosives And Munitions Scrap Disposal And Demilitarization Services

New and Replace Existing Systems

Objective

Joint or Common Contract for Ammunition, Explosives and Munitions Scrap Disposal and Demilitarization services.

Requirements

The Canadian Armed Forces (CAF) have a requirement for a capability to demilitarize ammunition and explosives and aids to production that have reached the end of their service life and are being declared: life expired, obsolete or surplus to requirements as well as items that have deteriorated to such a condition that they are deemed unsafe or unsuitable for further use (yet still safe for transportation and storage. Further, the CAF is looking to dispose of a backlog of munitions scrap that continues to accumulate as a result of range clearance and contracted unexploded ordnance (UXO) activities. These items must be fully demilitarized before they may be safely released for final disposal to scrap material recyclers or proper disposal of hazardous waste. Due to the challenges of shipping these items to the US and the cost of shipping overseas, these services are expected to be performed in Canada.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2016
    - Request for Proposal Release
- 2018
    - Contract Award

Point of Contact

Director of Ammunition and Explosives Management and Engineering
Phone: 819-994-2411
Submit Your Ideas

SERVICES - Cormorant In Service Support Contract

In-Service Support

Objective

The objective of this In-Service Support Contract is to put in-place the First to Third Line support necessary to provide mission-ready aircraft to the Royal Canadian Air Force at 9 Wing Gander, 14 Wing Greenwood, and 19 Wing Comox. The Crown will retain specific responsibilities and authorities for oversight of operations, maintenance, engineering, logistics, and airworthiness for this contract.

Requirements

The Cormorant In-Service Support contract will provide first to third-line maintenance; engineering activities necessary for life cycle management and continuing airworthiness; aircraft and component repair and overhaul; logistic support including overall management of spares and materiel; equipment and publications; and technical training for pilots and flight engineers.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2024
  - Request for Proposal Release
- 2025
  - Contract Award

Point of Contact

Director Aerospace Equipment Programme Management, Maritime
Phone: 819-939-4053
Submit Your Ideas

SERVICES - *NEW* Data-Centric Security Service

New

Objective

The Data Centric Security Services (DCSS) project will implement security processes and systems that will make the balance between information sharing and protection more effective and efficient. The outcome from a successful DCSS implementation will be a seamless information environment existing on a single, unified network. This will satisfy the Canadian Armed Forces (CAF) operational requirement for a multi-caveat security capability.

Requirements

DCSS will design and engineer a capability based on open standards and service oriented architecture, which will provide data centric security including controlled access to information resources/services and will enable information sharing based on standardized security labels, designated permissions, user credentials and security policy. This capability must be able to integrate into existing Computer Information Systems (CIS) of the department.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2017
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2020
  - Final Delivery

Point of Contact

Director Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance Requirements
Phone: 613-995-1401
Submit Your Ideas

SERVICES - *NEW* Data Management Services for Synthetic Aperture Radar (SAR) and Automatic Identification Services (AIS) Data

New Systems

Objective

To procure data management services for Synthetic Aperture Radar (SAR) and Automatic Identification Services (AIS) data. In addition, to provide a task-based data processing and data analysis service.

Requirements

Defence Research and Development Canada (DRDC) – Ottawa Research Centre of the Department of National Defence has a requirement for the provision of Information Technology (IT) professional services, on an “as and when requested” basis, in the National Capital Region (NCR), to provide (1) data management services and (2) data processing and analysis services for SAR and AIS data. Additionally, there is a potential requirement for field trial support.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2015
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2019
    - Final Delivery

Point of Contact

Defence Research and Development Canada
Phone: 613-992-7237
Submit Your Ideas

SERVICES - Halifax Class Combat System Integrated In-Service Support Contract

In-Service Support

Objective

The Halifax Class Combat System Integrated In-Service Support Contract (CSI ISSC) provides long-term, full-spectrum support to the Command and Control Systems (CCS) installed on Halifax Class ships, and their associated shore facilities.

Requirements

Services that are contracted through the CSI ISSC include: 2nd and 3rd line corrective maintenance, 2nd and 3rd line preventative maintenance, materiel certification, combat systems engineering services, management of data, warehousing and management of Government owned spares inventory, information technology security, configuration and obsolescence management, and coordination of activities with Original Equipment Manufacturers. This contract will employ Competitive procurement strategy that may be impacted by Intellectual Property rights.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2017 to 2019
    - Definition Approval
- 2019 to 2020
    - Request for Proposal Release
- 2022 to 2024
    - Implementation Approval
    - Contract Award
- 2026 to 2035
    - Final Delivery

Point of Contact

Director Maritime Equipment Programme Management (Major Surface Combatant)
Phone: 819-939-3177
Submit Your Ideas

SERVICES - Halifax Class Combat Systems In-Service Support Contract

In-Service Support

Objective

The Halifax Class Combat Systems In-Service Support Contract (HCCS-ISSC) will provide long-term, full-spectrum support to the combat systems (excluding command and control systems) installed on Halifax Class ships..

Requirements

Services that will be contracted through the HCCS-ISSC include: 2nd and 3rd line corrective maintenance, 2nd and 3rd line preventative maintenance, materiel certification, engineering services, management of data, warehousing and management of Government owned spares inventory, information technology security, configuration and obsolescence management, and coordination of activities with Original Equipment Manufacturers. This contract will employ Competitive procurement strategy that may be impacted by Intellectual Property rights.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2017
    - Request for Proposal Release
- 2018
    - Contract Award
- 2036+
    - Final Delivery

Point of Contact

Director Maritime Equipment Programme Management (Major Surface Combatant)
Phone: 819-939-3177
Submit Your Ideas

SERVICES - Halifax Class Design Agent In-Service Support Contract

In-Service Support

Objective

The Halifax Class Design Agent In-Service Support Contract (ISSC) will provide Class Design and Technical Data Agency services for the twelve Halifax Class Ships. These services may be extended to other class vessels when requested by the Canadian Armed Forces on a case by case basis. These services are to be provided as-and-when required.

Requirements

The Halifax Class ships have highly integrated systems incorporating multiple systems related to a number of engineering disciplines. Services that will be contracted through the Halifax Class Design Agent ISSC include configuration status control, technical data management, coordination of related System Engineering activities, and all activities relating to the support and administration of the Technical Data and associated libraries/repositories (i.e. Indexing, cataloguing, controlling, storage). This contract will employ competitive procurement strategy that may be impacted by Intellectual Property rights.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2017
    - Request for Proposal Release
- 2018
    - Contract Award
- 2026 to 2035
    - Final Delivery

Point of Contact

Director Maritime Equipment Programme Management (Major Surface Combatant)
Phone: 819-939-3177
Submit Your Ideas

SERVICES - Halifax Class LM 2500 Gas Turbine

In-Service Support

Objective

The Halifax Class LM 2500 Gas Turbine In-Service Support Contract (ISSC) will provide in-service support for the main engine of Halifax Class ships, the LM 2500 Gas Turbine, for the remaining life of the Halifax Class ships, estimated to be 20 years at the time of contract award.

Requirements

The gas turbine system is comprised of a gas generator, power turbine and enclosure assembly, high speed coupling shaft and the lube and oil conditioning and storage assembly. Services that will be contracted through Halifax Class LM 2500 Gas Turbine ISSC include: gas turbine repair and overhaul, 2nd and 3rd line corrective maintenance, 2nd line preventative maintenance, warehousing of Government owned LM 2500 spares inventory, Field Service Representative (FSR) support, training, configuration management, and technical investigation and engineering services. The Halifax Class LM 2500 Gas Turbine ISSC will be structured similar to the current contract with option years at regular intervals.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2016
    - Request for Proposal Release
- 2017
    - Contract Award
- 2036+
    - Final Delivery

Point of Contact

Director Maritime Equipment Programme Management (Major Surface Combatant)
Phone: 819-939-3177
Submit Your Ideas

SERVICES - *NEW* Human Factors Engineering (HFE) Support to Canadian Soldier Systems

New Systems

Objective

The objective of this contract is to provide human factors engineering support to Future Small Arms research (FSAR), Soldier System Effectiveness, and Canadian soldier modernization efforts.

Requirements

The scope of the work will focus on the following activities:

- Planning, conduct and reporting on Human Factor Research and Development (HF R&D) to support FSAR, SoSE, and soldier system acquisition project decision-making; Development and validation of requirements and specifications for these projects; Planning, conduct of analysis and briefing/formally reporting on all HF studies supporting the acquisition of soldier systems and soldier system components,
- Independent Verification and Validation of HF-related studies and products of system/equipment suppliers or lead systems integrators, including oversight/monitoring of studies and/or user/field trials conducted by lead systems integrators;
- Literature and Subject Matter Expert reviews; Surveys of user characteristics and needs;
- Development of standardized, validated and reliable test methods and criteria for assessment of soldier systems and their components;
- Technical, administrative and logistical planning, coordination, liaison and execution of FSAR and SoSE trials at Canadian, US Army or USMC bases;
- Development and/or integration of technologies that will permit effective and efficient collection and analysis of relevant objective measures for field-based soldier studies at the individual and team level

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2015
    - Definition Approval
- 2016
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2020
    - Final Delivery

Point of Contact

Defence Research and Development Canada
Phone: 613-992-7237
Submit Your Ideas

SERVICES - Legacy Hercules/Aurora fleets Propulsion Group Sustainment (PGS) Support Contract

In-Service Support

Objective

The objective of this PGS contract is to secure Repair and Overhaul (R&O) support for the T56 Propulsion Group (PG) of the legacy Hercules and Aurora fleets. The contract solicitation will occur using a pilot project approach under the sustainment initiative, where the goal is to develop and demonstrate the benefits of the introduction of performance based best practices. Industry engagement will be a key element in ensuring the requirements of government and industry are aligned.

Requirements

The performance based enterprise-wide sustainment system will support the 13 legacy Hercules' and 14 Aurora's fleet operational requirements up to year 2030. This T56 contract shall include the support to the Rolls-Royce T56 engines, Lockheed Martin quick engine change assembles, 54H60 Hamilton Sundstrand propellers, Honeywell auxiliary power units (for legacy Hercules only) and all associated accessories and components. A letter of interest was posted on buy and sell, requesting industry feedback on the performance based best practices, and the optimal division of responsibilities between government and industry. As such, a definitive scope of work has yet to be defined, but may include:

- Maintenance support including publications, training and field support;
- Engineering support including configuration management;
- Materiel management; and
- Logistics support.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2015
    - Request for Proposal Release
- 2016
    - Contract Award

Point of Contact

Director Aerospace Equipment Programme Management, Transport and Helicopter
Phone: 819-939-4454
Submit Your Ideas

SERVICES - Lightweight Towed Howitzer

In-Service Support

Objective

The aim of the Lightweight Towed Howitzer Project (LWTH) is to deliver a lightweight 155mm towed howitzer (M777C1 Field Artillery Gun) capability to the Canadian Armed Forces.

Requirements

The LWTH Project is examining the long-term sustainment strategy in order to sustain the fleet of 37 Lightweight 155mm Towed Howitzers for the Canadian Armed Forces. It is intended that this requirement will be carried out in a phased approach; an Interim Support Contract (3 years) followed by a Long Term Support Contract (up to 20 years).

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
  - Request for Proposal Release
- 2016
  - Contract Award

Point of Contact

Director Armament Sustainment Program Management
Phone: 819-997-1500
Submit Your Ideas

SERVICES - Minor Warships And Auxiliary Vessel In-Service Support Contract

In-Service Support

Objective

The Minor Warship and Auxiliary Vessel (MWAV) In-Service Support Contract (ISSC) will provide long-term in-service support for minor warships and auxiliary vessels including: Kingston Class, Orca training vessels, tugs, dive, research, range, and auxiliary support barges and vessels.

Requirements

Service Delivery. To provide second and third line maintenance activities to the vessels under the contract. The service delivery processes are broadly categorized as Engineering Services, Production Services and Materiel Management Services. The Contractor will be required to provide these services in home port and abroad to ships and ship's systems excluding Government Furnished Equipment (GFE), such as crypto, weapons systems and lifesaving equipment.

Life Cycle Materiel Management (LCMM). To effectively manage the ships, systems and equipment through life, the contractor will be required to take on certain LCMM functions. These functions include providing assistance in the Management of the Design Intent; which is the validation of ship performance against the Design Intent and the continuing alignment of the Design Intent with actual vessel performance. The provision of Maintenance Program Management to continuously improve and optimize the maintenance program for the ships/vessels based on the class materiel state and maintenance outcomes. Additional LCMM functions include: Engineering Change Management; Configuration Management; Spares and Asset Inventory Management; Supply Chain Management; Technical Data Management; Obsolescence Management; and Disposal Management.

In-Service Support Program Management. In the context of this long term in-service support contract, the Contractor may be called upon to provide limited In-Service Support Program Management support. In this role, the contractor would contribute to class plans that outline in-service support activities to be executed.

Preliminary Estimate

- More than $1.5 billion

Anticipated Timeline

- 2018
    - Request for Proposal Release
- 2019
    - Contract Award
- 2026 to 2035
    - Final Delivery

Point of Contact

Director Maritime Equipment Programme Management, Minor War Ships and Auxiliary Vessels
Phone: 819-939-3482
Submit Your Ideas

SERVICES - Mobile Expandable Container Configure Softwall Repair and Overhaul

Replace Existing Systems

Objective

A key component of the current Canadian Armed Forces (CAF) Expeditionary Beddown capability is the Mobile Expandable Container Configuration (MECC) Softwall Shelter and all of its variants. In order to ensure that this equipment continues to be available to meet CAF operational requirements, a renewed Repair and Overhaul (R&O) contract is required. The CAF has approximately 500 MECC Softwall shelter variants currently in service.

Requirements

Department of National Defence has a requirement for R&O services to be performed on MECC Softwall shelters. These shelters are positioned throughout Canada and at operational sites where the CAF are deployed. Work will be conducted and completed either in Canada, at CAF deployed operations or at the contractor's facility.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
  - Request for Proposal Release
- 2017
  - Contract Award
- 2022
  - Final Delivery

Point of Contact

Director Combat Support Equipment Management
Phone: 819-997-9964
Submit Your Ideas

SERVICES - ARCHIVED - North Warning System Operations and Maintenance Contract

This content is archived because Request for Proposals has been released or Contract awarded.

In-Service Support

Objective

The mission of the North Warning System (NWS) is to maintain continuous radar surveillance of, and a measure of control over, the northern approaches to North America, contributing to North American defence and Canadian sovereignty. The NWS provides the capability to detect airborne threats within the NWS surveillance area, to provide threat warning and assessment data, as well as provide a command and control capability to the North American Aerospace Defence Command (NORAD) Canadian Air Defence Sector (CADS).

Requirements

The NWS in Canada is comprised of 11 Long Range Radar (LRR) sites and 36 Short Range Radar (SRR) sites spanning the Canadian Territories and the Labrador Coast. The NWS is divided into 5 zones, each with a Logistic Support Site (LSS). Most of the radar sites are operated remotely. Although DND retains NWS ownership and configuration authority, the contractor possesses responsibility for the care, custody and control of the sites, along with responsibility to deliver the radar data to the operations centre in North Bay.

This contract will be an initial 5 year period with options to renew on a fiscal year basis for up to 5 additional years.

Preliminary Estimate

- $250 million to $499 million

Anticipated Timeline

- 2018
    - Request for Proposal Release
- 2019
    - Contract Award

Point of Contact

Director Aerospace Equipment Programme Management, Radar and Communication Systems
Phone: 819-939-4444
Submit Your Ideas

SERVICES - *NEW* Professional Support for Tactical Edge Cyber Command and Control (TEC3)

New Systems

Objective

The objective of the project is to provide technical expertise and service support related to the Tactical Edge Cyber Command and Control (TEC3) and Advanced Mobile Networking Operations (AMNO) research activities.

Requirements

The Contractor must, on an “as and when requested” basis, provide technical expertise and support services which may include, but not necessarily be limited to, the following:

- Technical support to develop, test, integrate and build various applications and tools;
- Hardware and Software design for tactical cyber operations;
- Technical expertise in tactical and commercial communication protocols, network design, information systems security, programming handheld and tablet devices; and Developing software applications for the continued development of the analytical and scientific research components.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2015
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2019
    - Final Delivery

Point of Contact

Defence Research and Development Canada
Phone: 613-992-7237
Submit Your Ideas

SERVICES - *NEW* Sea King T58 Engine Contract

In-Service Support

Objective

The objective of this Sea King T-58 Engine Repair and Overhaul Contract is to ensure continued maintenance support until the fleet is retired from service.

Requirements

The Department of National Defence has a requirement for the provision of repair, overhaul, modification and reduction to spares, Technical Investigations and Engineering Support (TIES), Logistics Support Services (LSS), Mobile Repair Parties (MRP) and other related Support Services for the T58GE-100 Turbo Shaft Aero Engine and associated components for the Sea King Helicopter.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
    - Request for Proposal Release
    - Contract Award
- 2018
    - Final Delivery

Point of Contact

Director Aerospace Equipment Programme Management, Maritime
Phone: 819-939-4053
Submit Your Ideas

SERVICES - Simulators And Trainers Maintenance Support Contract

In-Service Support

Objective

This contract will provide training services and maintenance support of the Aurora, Griffon and Hercules Simulators. This support shall enable the Canadian Armed Forces to maintain aircrews training requirements.

Requirements

The contract will provide on-site courseware development, training delivery, hardware and software maintenance and support for Canadian Forces Air Simulators and Trainers at the four (4) Department of National Defence locations, CFB Trenton, CFB Greenwood, CFB Gagetown and NDHQ Ottawa/Carleton University. Sole Source due to Intellectual Property Rights.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
  - Request for Proposal Release
- 2017
  - Contract Award

Point of Contact

Director Air Simulation & Training
Phone: 613-998-4357
Submit Your Ideas

SERVICES - ARCHIVED - Sleeping Bag System Contract

This content is archived because Request for Proposals has been released or Contract awarded.
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New and Replace Existing Systems

Objective

The Canadian Armed Forces (CAF) will replenish its holdings of sleeping bags with an improved modular system to address CAF requirements.

Requirements

The new sleeping bag will consist of a multi-layer sleeping system that can be configured to provide protection to the user for all expected training and operational thermal conditions, from mid-summer to high arctic. The modular sleeping bag system will be compatible with the existing bivy bag, inflatable mattress and the new sleeping pad.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2014 update
    - Request for Proposal Release
- 2015
    - Contract Award

Point of Contact

Director Soldier Systems Program Management
Phone: 819-997-9768
Submit Your Ideas

SERVICES - *NEW* Test, Analysis and Development Services in the Field of Injury, Biokinetics, Small Arms Effects and Personal Protection

New Systems

Objective

The objective of this contract is the provision of technical services to Defence Research and Development Canada on an as and when required basis to support, complement and extend capabilities in the field of biomechanics, small arms effects and personal protection.

Requirements

The scope of the work will focus on the following activities:

- Testing of materials used for personal protection, personal protective equipment and small caliber ammunition; Specification, selection, acquisition, evaluation, maintenance and optimization of Commercial Off the Shelf (COTS) test apparatus and sensors; Development of specialized test apparatus.
- Development of test methodologies and metrics for injury risk evaluation as well as for the assessment of small arms effects and the performance of protective materials and equipment. Processing, validation and interpretation of sensor and imagery data from dynamic events; Numerical modeling and analysis of protective materials and biological systems response under dynamic loading; Expert advice in injury biomechanics, small arms effects and, performance/design of personal protective equipment.

Preliminary Estimate

- Under $20 million

Anticipated Timeline

- 2015 to 2016
    - Definition Approval
- 2016
    - Implementation Approval
    - Request for Proposal Release
    - Contract Award
- 2021
    - Final Delivery

Point of Contact

Defence Research and Development Canada
Phone: 613-992-7237
Submit Your Ideas

SERVICES - Victoria Class AN/BQQ-10 Sonar Follow-On Technical Support In-Service Support Contract

In-Service Support

Objective

The AN/BQQ-10 Sonar Follow-On Technical Support In-Service Support Contract (FOTS ISSC) will provide long-term, full-spectrum support for the AN/BQQ-10(v)7 submarine sonar system installed on Victoria Class submarines.

Requirements

Services contracted under the FOTS ISSC will include engineering and maintenance support to the AN/BQQ-10 Sonar Suite; Field Service Representative (FSR) support for troubleshooting and repair worldwide; System configuration management, obsolescence tracking with industry and USN inventory; Technical Investigations and Engineering Support (TIES); 3rd line repair and overhaul; Integrated Logistics Support (ILS) to produce and maintain technical publications and configuration documentation; Provision of additional spares as may be deemed necessary; Disposal of obsolete equipment items.

In addition, the FOTS ISSC will provide hardware and software refresh for the AN/BQQ-10 sonar system every five years. This is the main obsolescence management component of the USN AN/BQQ-10 sonar program. Sole sourced through Foreign Military Sales.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
    - Request for Proposal Release
- 2016
    - Contract Award
- 2021
    - Final Delivery

Point of Contact

Director Maritime Equipment Programme Management (Submarines)
Phone: 819-939-3252
Submit Your Ideas

SERVICES - Victoria Class Submarine Fire Control System In-Service Support Contract

In-Service Support

Objective

The Submarine Fire Control System In-Service Support Contract (SFCS ISSC) provides in-service support to Fire Control Systems installed on all four Victoria Class submarines.

Requirements

The Submarine Fire Control System is critical for the submarine weapon firing capability as well as the tactical picture compilation which is a safety-critical function. The response time required under this contract to complete repairs when submarines are at sea is required to be within two to four hours. Services contracted under the SFCS ISSC also include emergent engineering tasks that are raised in the form of studies, design, prototyping and development to address obsolescence. Sole Source due to Intellectual Property Rights.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2015
  - Request for Proposal Release
- 2015
  - Contract Award
- 2019
  - Final Delivery

Point of Contact

Director Naval Combat Systems
Phone: 819-939-3122
Submit Your Ideas

SERVICES - Victoria Class Submarine In-Service Support Contract

In-Service Support

Objective

The Victoria Class Submarine In-Service Support Contract (VISSC) is a comprehensive, complex alternate service delivery contract to address the maintenance, repair and overhaul, documentation and management of four Ex-Royal Navy Upholder Class, 2400 ton diesel-electric submarines. These submarines, renamed respectively HMCS VICTORIA, WINDSOR, CORNER BROOK and CHICOUTIMI (the Victoria Class) were accepted into Royal Canadian Navy service between 2000 and 2004.

Requirements

Work under the VISSC is broadly defined by five areas of service delivery, including; project management; records support; engineering support; materiel and logistics support, and maintenance support to include extended docking work periods.

Preliminary Estimate

- $500 million to $1.5 billion

Anticipated Timeline

- 2021
    - Request for Proposal Release
- 2023
    - Contract Award
- 2026 to 2035
    - Final Delivery

Point of Contact

Director Maritime Equipment Programme Management (Submarines)
Phone: 819-939-3252
Submit Your Ideas

Canadian Special Operations Forces Command Force Development

To enable and sustain exclusive Canadian Special Operations Forces Command (CANSOFCOM) capabilities, CANSOFCOM constantly reviews capabilities to ensure technological overmatch and sustainability is maintained. As much as possible, the process occurs with transparent, innovative and proactive engagements with industry and timely consultation with the science and technology community. To synchronize operational requirements, CANSOFCOM procures new SOF specific capabilities and manages in service capabilities through the Director Force Development Staff. The Staff manages Major and Minor Capital Equipment Projects ranging in value from less than $1M to more than $100M.

Major Capital Equipment Projects (greater than $5 Million) that may deliver future capabilities within the next 20 years are listed in the Defence Acquisition Guide. These projects are subject to a multi-year process to ensure there are clear linkages to strategic level directives and capability based planning. Accordingly they form the Government of Canada's long term investment plan for CANSOFCOM. Due to the small, agile and highly specialized nature of CANSOFCOM, the Department of National Defence balances the long term investment plan with a more rapid yet carefully regulated short term investment plan.

- Commercial Pattern Armoured Vehicles
- Special Operations Task Forces Command and Control
- Canadian Special Operations Regiment Full Operational Capability - Equipment
- Chemical, Biological, Radiological, Nuclear and Explosive Enhancement
- Next Generation Fighting Vehicles

Minor Capital Equipment Projects (less than $5 Million) address short term requirements. These projects are also subject to a rigorous process, but due to the lower dollar value and increased urgency of the requirements, they are processed more rapidly. Annually, this amounts to approximately $25M in expenditures for procurements to maintain in-service capability or address operational requirements.

Director Force Development Staff are organized to optimize the management of both Minor and Major Projects and effectively establishing early interface with Industry and the science and technology community. The Staff is divided into portfolios which focus on specific areas of interest. Each portfolio is managed by a senior CANSOFCOM Staff Officer organized as follows:

- Soldier and Sustainment Systems
- Air and Aviation Systems
- Maritime and Land Mobility Systems
- Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) Systems
- Medical Systems
- Chemical, Biological, Radiological, Nuclear and Explosive (CBRNe) System

How can you submit an idea?

STEP 1: Look at the Portfolios above to confirm what you have to offer is something we may be interested in.

STEP 2: Fill out a submission form to provide an overview.

STEP 3: Receive confirmation of receipt.

Submit Your Ideas

CANSOFCOM SERVICES - Commercial Pattern Armoured Vehicles

New and Replace Existing Systems

Objective

The project will deliver a fleet of Civilian Pattern Amoured Vehicles comprising of different variants, and integrated logistic support (to include initial cadre training and the first two years of in-service support).

Requirements

The project will procure civilian pattern amoured vehicles. The vehicles will provide a degree of crew protection in order to enable the conduct of a multitude of missions. The project will also provide the first two years of a nine year logistic support contract for the vehicles' equipment life expectancy.

Preliminary Estimate

- $20 million to $49 million

Anticipated Timeline

- 2016
    - Implementation Approval
    - Contract Award
- 2017
    - Final Delivery

Point of Contact

Director SOF Requirements 2
Phone: 613-998-4570
Submit Your Ideas

CANSOFCOM SERVICES - Special Operations Task Forces Command and Control

New and Replace Existing Systems

Objective

The Special Operations Task Forces Command and Control Communication Information System (SOTF C2 CIS) project will optimize its C2 system using an integrated support model and a Service-Oriented Approach to deliver holistic C2 capabilities critical to Special Forces Operations.

Requirements

The project will integrate and sustain C2 CIS capabilities that support and enable the CANSOF mandate by delivering hardware, software and architecture work including professional services.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2014
  - update
  - Options Analysis
  - Definition Approval
- 2015
  - Request for Proposal Release
  - Contract Award
- 2017
  - Implementation Approval
- 2020
  - Final Delivery

Point of Contact

Director SOF Requirements 2
Phone: 613-998-4570
Submit Your Ideas

CANSOFCOM SERVICES - Canadian Special Operations Regiment Full Operational Capability - Equipment

New and Replace Existing Systems

Objective

The Canadian Special Operations Regiment (CSOR) Equipment project will provide the additional depth, flexibility and sustainment necessary for the Regiment to support the sustained deployment of robust task-tailored Special Operations Task Forces.

Requirements

The CSOR Equipment project will procure sufficient mission essential equipment to allow for the contribution to independent Special Operations Task Forces. CSOR must remain integrated and interoperable with CANSOFCOM elements and will leverage Canadian Armed Forces (CAF) items and/or procure commercial off-the-shelve or military off-the-shelf.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
  - Implementation Approval
  - Request for Proposal Release
- 2017
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director SOF Requirements 2
Phone: 613-998-4570
Submit Your Ideas

CANSOFCOM SERVICES - Chemical, Biological, Radiological, Nuclear and Explosive Enhancement

New and Replace Existing Systems

Objective

The Chemical, Biological, Radiological, Nuclear and Explosive (CBRNE) Enhancement project will provide the necessary equipment to enable the Canadian Joint Incident Response Unit (CJIRU). This project will build upon and enhance existing capabilities and will allow CJIRU to sustain and force generate for its mandated CBRNE support tasks.

Requirements

The CBRNE Enhancement Project will procure systems currently in use by CJIRU as well invest in opportunities that will provide enhancement over the next several years. This initiative will be established in cooperation through existing agreements with Defence Research and Development Canada, the Directorate of CBRN Defence and Operational Support, other DND organizations, international partners as well as product improvements provided by industry and academia.

Preliminary Estimate

- $50 million to $99 million

Anticipated Timeline

- 2015
  - Definition Approval
- 2016
  - Implementation Approval
  - Request for Proposal Release
  - Contract Award
- 2020
  - Final Delivery

Point of Contact

Director SOF Requirements 2
Phone: 613-998-4570
Submit Your Ideas

CANSOFCOM SERVICES - Next Generation Fighting Vehicles

Replace Existing Systems

Objective

The Next Generation Fighting Vehicle (NGFV) will provide CANSOFCOM a tactical multi-role vehicle in the performance of their special operations specific and unique tasks and roles.

Requirements

The NGFV will procure a modern and diverse multi-role vehicle incorporating the prescribed equipment and weapons load, mobility, survivability of the crew and vehicle and sustainment inherently required in the execution of special operations tasks.

Preliminary Estimate

- $100 million to $249 million

Anticipated Timeline

- 2015
  - Options Analysis
- 2016
  - Definition Approval
- 2017
  - Implementation Approval
  - Request for Proposal Release
- 2018
  - Contract Award
- 2025
  - Final Delivery

Point of Contact

Director SOF Requirements 2
Phone: 613-998-4570
Submit Your Ideas

CANSOFCOM SERVICES – Soldier and Sustainment Systems

What soldier system capabilities interest CANSOFCOM?

Within CANSOFCOM, many soldier system capabilities are life-cycled on a regular basis (typically 3 to 5 years) in order to remain current and employ leading edge technologies. Therefore, the requirements within soldier systems are enduring. These requirements apply to the land, sea and air environments. Ideas that integrate individual components to make a more capable system are of interest. In general, if you have a product in the following areas, or those introducing a generational leap in technology, we would like to hear from you.

Personal Protection Equipment

Protection equipment should provide superior protection at a reduced weight that is highly functional and durable. It should also be low visibility with the inability for an adversary to detect. Specific items include Helmets, Clothing, Personal Body Armour, Life Vests, and Wet Suits.

Personal and Crew Served Weapons

Although key capabilities, these systems are not replaced frequently and typically remain in service for a long period of time. This equipment should be light and highly functional, providing consistent and reliable precision effects both directly and indirectly. It must also be able to perform in all environments under extreme conditions. Example: Sniper Systems, Light Machine Guns, Heavy Machine Guns, Anti-Armour Weapons.

Electro-Optics

New technology in this domain will allow CANSOFCOM to detect, at a high resolution and precision with low noise and power usage during the day and night. These items should be light and able to endure extreme environmental conditions, and include components such as Personal Night Vision Devices, Target Designators, and Sighting Systems.

Load Carriage Systems

Development in this area will allow an individual to carry heavier external loads further and experiencing less fatigue through the use of advanced load carriage systems. It should also allow the person to move with best possible speed and agility.

Advanced Power Systems

Power supply solutions such as New Battery Technology and Power Generation systems should be light and enduring. They should be capable of powering multiple equipment carried by the individual and capable of performing under extreme environmental conditions while remaining safe.

Submit Your Ideas

CANSOFCOM SERVICES – Air and Aviation Systems

What air and aviation capabilities interest CANSOFCOM?

Within CANSOFCOM there are integral air systems (CH146 Griffon helicopters attached to 427 SOAS), however interoperability with other non-integral air systems (such as RCAF platforms) are of interest. To permit the rapid exploitation of emerging technologies, we engage with industry to assist in the upgrade of sensors or systems to enable SOF interoperability. If you have a product in the following areas with new or emerging technology, we would like to hear from you.

Intelligence, Surveillance, and Reconnaissance Sensors

Technologies and sensors should allow the rapid survey of the battlespace and integration of surveillance systems. From the air, technologies that provide wide-area surveillance incorporating a suite of sensor technologies to identify targets through foliage, thick vegetation, built-up areas or triple canopy. The systems should also be capable of long-duration surveillance that can rapidly disseminate operational information to key elements on the battlefield to support the dynamic SOF mission set.

Unmanned Aerial Vehicles

Small to Tactical-level UAV/UAS with modular payloads should be capable of integrating surveillance capabilities with encrypted digital data link. UAV/UAS technology that is capable of producing lightweight systems with good range and persistence.

Line-Of-Sight (LOS) and Beyond-Line-Of-Sight (BLOS) Communications

Communication technology capable of integrating with existing avionic systems should provide secure data links to ground forces or other aircraft. Solutions may include satellite communications systems for voice and/or high-bandwidth data transmission.

Self Defence weapons

High-rate-of-fire, lightweight self-defence weapons for aviation platforms are of interest. Innovative solutions should provide effective and innovative solutions for self-protection of aviation and air assets.

Submit Your Ideas

CANSOFCOM SERVICES – Maritime and Land Mobility Systems

What Mobility Capabilities Interest CANSOFCOM?

CANSOFCOM requires a multitude of mobility platforms to conduct its mission sets across the operational spectrum. Such systems must reliably operate throughout climatic extremes, including arid, artic, mountainous and urban terrains. Improvements in design and construction that minimize weight, signature and maintenance without compromising vehicle performance, endurance and protection are of particular interest. In general, if you have a product in the following areas that is generational leap in technology, we would like to hear from you.

Vehicle Platform Performance

A key characteristic of CANSOFCOM mobility systems is the ability to rapidly stage such platforms in the operating environment via tactical and strategic air lift. Small and light weight platforms should allow for improved fuel efficiency, increased capability on marginal terrain, lower ground pressures and greater maneuverability on vertical and side slope. Design improvements should increase payload capacity, both in terms of weight and volume, and incorporate rapidly configured modular designs that support different mission profiles.

Advanced Platform Design

Advances in platform design are expected to minimize platform signature, including appearance, noise, heat, exhaust and electronic emissions. Technological features may incorporate novel sensor input/outputs or employ autonomous platform navigation. Such designs should strive to maximize crew situational awareness and minimize fatigue typically associated with sudden or sustained shock and vibration.

Longevity and Endurance

Improvements in this domain will reduce the time and resources necessary to maintain vehicles, both in the field and long term. This includes material improvements to reduce long-term degradation and increase strength of platform while minimizing cost. Improved designs will enhance the reliability of systems and sub-assemblies and allow for modular replacement and field maintenance of common components.

Protection

Improvements in this domain will provide occupants with greater protection from ballistic and explosive threats and/or minimize the size and weight of existing protection factors. Emphasis is on modular designs that enable task-tailored protection, including low-signature operations, with minimal maintenance time and resources.

Firepower Flexibility

Weapons integration is an essential component of crew survivability. Platforms with the flexibility to mount multiple weapon systems through a variety of mounting methods, including modular attachments and remote weapon systems, are desired.

High Speed Watercraft

Rugged, versatile, high speed, ocean going platforms (range from 7-24 m) should be capable of transporting personnel in adverse weather conditions and maintaining station alongside larger vessels while underway. Signature reduction to reduce detection of manned platforms.

Shock and Vibration Mitigation on Watercraft

Occupants and equipment are subject to both short and long term effects from exposure to impact. Equipment of this type should be incorporated into high speed craft or worn by personnel, capable of protecting occupants and mitigating effects from prolonged exposure to shock and vibration loads.

Multi-fuel / Hybrid Outboard Motors

High power/performance to weight ratio, man-portable, reliable, outboard motors should incorporate new or emerging multi-fuel or hybrid power technologies.

Swimmer Delivery Systems

Platforms that enable operators to conduct surface or sub-surface maritime operations including over-the-beach operations are of interest to CANSOFCOM. Key characteristics are size/weight (man-portable), endurance, and low acoustic and electromagnetic signature.

Submit Your Ideas

CANSOFCOM SERVICES – Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) Systems

What C4ISR capabilities interest CANSOFCOM?

Special Operations forces share common attributes such as precision, mission focus, agility and innovation. The ability to rapidly implement novel C4ISR capabilities is central to the success of CANSOFCOM missions. CANSOFCOM is interested in unique and innovative C4ISR technology solutions to make SOF operations more effective, mobile and independent. If you have a transformational product in the following areas, we would like to hear from you.

High Bandwidth Technologies

Secure communications with the capability for high bandwidth imagery full-motion video, sensor feeds, and multi-layered data bases. Solutions should provide high bandwidth information interfaces and services across the full spectrum of operating domains.

Advanced Antennas- Low Visibility/Low Profile

Antenna designs should combine broad banded and great performance that have dismounted, mounted, and fixed site applicability. Systems should be discreet and difficult or impossible to distinguish from their mounted platform.

Secure mesh, self-forming mobile ad-hoc networks

Secure, robust, accredited devices that allow for the establishment of secure self-forming, mobile ad-hoc networks interoperable with Joint SOF and Joint Services. Systems should be suitable for dismounted CANSOFCOM mobility platforms including unmanned systems and sensors.

Advanced multi-function software defined radios

Multi-purpose, fully integrated RF capability should provide SOF-unique functional attributes. Systems should be developed as man-portable, hand-held system or for SOF Mobility platforms.

Advanced Mobile Technologies

Technologies to enhance security and enable the assured use of existing and emerging mobile communications devices for tactical and operational communications.

Advanced data management

CANSOFCOM requires technologies that provide automatic data synchronization, fusion, mining, indexing and dissemination of data collected by widely dispersed SOF resources.

Advanced situational awareness in all environments

Solutions should be developed capabilities that fuse and correlate battlefield information from a variety of sources and display it in an accurate and shared common operational picture. This includes fusion of full motion video with other sources of information, visually displayed in near real time to significantly improve the opportunities for knowledge management and discovery during operations.

Submit Your Ideas

CANSOFCOM SERVICES – Medical Systems

What Medical capabilities interest CANSOFCOM?

CANSOFCOM health services provide integral medical capabilities to all types of SOF missions in varying capacities. CANSOFCOM is interested in improved treatment strategies optimized for patients in austere areas that require treatment for long periods, concepts for small and rugged vital signs monitors, analgesia. These solutions should be suitable to be maintained and administered in SOF environments. If you have novel methods and devices for rapid identification and analysis or optimal acclimatization strategies for problems such as high altitude edemas we would like to hear from you.

Global Treatment Strategies

Research, apply and/or develop effective treatment strategies that address the following elements: hypotensive resuscitation, optimal fluid(s), uncomplicated shock, non-compressible hemorrhaging and traumatic brain injuries. These strategies must be optimized for patients in austere, far-forward areas who must be treated for extended periods (days, not hours).

Vital Signs Monitoring

Research, apply and/or develop novel concepts for miniaturized and ruggedized vital signs monitors (temperature, pulse, respiration, blood pressure, capnography, and pulse oximetry) that capture data for later retrieval. Concepts should include an open architecture to allow for easier integration with other systems and applications.

Analgesia

Research, apply and/or develop novel peripherally and centrally acting analgesia that provide easy administration in the field, tolerance of extreme environments, and effectiveness at the point of injury for a prolonged period of field care (days, not hours) and does not sensitize the patient to topical analgesia. Maximum analgesia with minimal sedation is preferred.

Occupational and Environmental Health (OEH) Hazards

Novel methods and devices for rapid identification and analysis of exposures to OEH hazards. Research must support the development and analysis of hand held field hardened and environmentally stable monitoring devices, dosimetry, and assays for rapid on site identification, and analysis of media that could pose an OEH hazard to SOF personnel such as industrial contaminants, food borne pathogens, toxins, agents, and biological material exposures.

Optimal Acclimatization Strategy

Research, apply and/or develop novel approaches that provide rapid and sustainable human acclimatization for extremes in temperature, altitude and time change (circadian acclimatization).

High altitude pulmonary edema/high altitude cerebral edema

Research, apply and/or develop novel treatment approaches, either pharmaceutical interventions or alternative treatments, for high altitude pulmonary edema and/or high altitude cerebral edema.

Submit Your Ideas

CANSOFCOM SERVICES – Chemical, Biological, Radiological, Nuclear and Explosive (CBRNe) Systems

What CBRNe capabilities interest CANSOFCOM?

CANSOFCOM provides specialized, timely, and agile CBRNe response to the Government of Canada. In general, if you have a product in the following areas that is generational leap in technology, we would like to hear from you.

Advanced Protection from CBRNe Hazards

Advanced personal protective equipment which provide superior protection from CBRN hazards - including Toxic Industrial Chemicals and Materials - while decreasing thermal burden and weight, and improving user comfort and freedom of movement. Technologies that incorporate advances in textiles and adaptive material which enhance individual protection from cold, heat, altitude, and hazards are of interest.

Sample and Identification of Biological Chemical and Radiological Agents

Novel methods and devices for rapid detection, identification, analysis of materials and substances in a field setting that are man portable, simple to use and operate with limited consumables. Develop novel methods and devices for rapid detection, identification, analysis and/or characterization of chemical, biological and radiological agents in a mobile or field laboratory setting. Detection methods of interest will include both point and stand-off capabilities.

CBRN Medical

Develop novel methods and devices, or improve upon existing technologies which will enhance CANSOFCOM's capability to provide and sustain integral CBRN medical support small teams. This can include man portable or platform based systems to provide the spectrum of care necessary to prevent, minimize and treat injuries sustained as a result of exposure to CBRN hazards or working in a CBRN contaminated environment.

Decontamination

Develop novel methods for personnel and sensitive equipment decontamination to mitigate or neutralize CBRN hazards, including waterless decontamination technologies that are man portable, simple to use and operate with limited consumables. Develop novel methods, devices, and compounds for the neutralization of bulk chemical, biological, and radiological agents in a field setting that are man portable and simple to use.

CBRN Surveillance

Develop novel or enhance existing CBRN surveillance equipment and/or systems to augment CANSOFCOM's ability to conduct passive and active stand-off, remote or point CRBN surveillance/reconnaissance using man-portable or remote platform based systems to detect and identify CBRN hazards.

CBRN Explosive Ordnance Disposal (EOD)

Equipment and methods to enhance CANSOFCOM's ability to detect and identify explosive materials or devices used as a dispersal method for hazardous materials. Advances in personal protection, remote systems and manual tools to neutralize explosive or non-explosive dispersion devices are of interest to CANSOFCOM.

Submit Your Ideas
