STATEMEMENT OF WORK

APPENDIX B6

ACRONYMS, ABBREVIATIONS AND DEFINITIONS

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Acronyms	Term	Definition
AIS	Automatic Identification System	The Automatic Identification System (AIS) assists in providing situational awareness and a means to assist in collision avoidance for maritime vessels. A UAS equipped with an AIS receiver can receive and display locations of vessels in the UA's area of operation.
	Availability	Availability includes launching a Sortie on time; and performing in accordance with the System Performance Specification (SPS) for the duration of the scheduled Sortie to meet the Mission. An UAS that aborts a Mission due to a component failure is no longer considered available to provide the required Sortie. Equipment reliability is thus a key component of Mission Availability.
BIT	Built-in-Test	An integral capability of the mission equipment, which provides an on-board, automated test capability to detect, diagnosis, or isolate system failures. The fault detection and, possibly, isolation capability is used for periodic or continuous monitoring of a system's operational health, and for observation and, possibly, diagnosis as a prelude to a maintenance action.
BVLOS	Beyond Visual Line of Sight	Flying an unmanned aircraft without the operator having the UA in visual line of sight at all times. Instead, the pilot flies the aircraft by instruments from the control station.
C2	Command & Control	The exercise of authority and direction by a commander over assigned, allocated and attached forces in the accomplishment of a mission.
C4ISR	Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance	A concept that integrates command, communication and intelligence activities to enhance decision making.
CAF	Canadian Armed Forces	
CDS	Chief of Defence Staff	
COCO	Contractor-Owned and Company-Operated	

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	Cold Start	Starting the UAS (application of electrical power and/or mechanical starting) in the ambient conditions of the operational environment.
	Contact	Any discrete airborne, surface or subsurface object detected by electronic, acoustic, and/or visual sensors.
COI	Contact of Interest	A contact may be designated as a Contact of Interest if it is deemed to be of military importance for the mission. A Contact of Interest includes a Contact that is reasonably believed to be; about to violate, is currently violating, or has previously violated sovereignty or law, or is not conforming to the normal location, movement, or behaviour of a compliant vessel or aircraft.
COMO	Contractor-Owned and Military-Operated	
COTS	Commercial-Off-The-Shelf	A commercially marketed product which is readily available for procurement and normally used without modification.
CS	Control Station	Also known as a Ground Control Station. Land- or sea-based control station that provides the facilities for human control of unmanned aircraft.
DND	Department of National Defence	
EC	Engineering Change	An alteration in the configuration of equipment or item, delivered, to be delivered, or under development, after formal establishment.
EO	Electro-Optical	The technology associated with those components, devices and systems which are designed to interact between the electromagnetic (optical) and the electric (electronic) state. Electro-optical sensors are electronic detectors that convert light, or a change in light, into an electronic signal.
EMI	Electromagnetic Interference	The disruption of operation of an electronic device when it is in the vicinity of an electromagnetic field (EM field) in the radio frequency (RF) spectrum that is caused by another electronic device.
FOB	Forward Operating Base	

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FOC	Full Operational Capability	The milestone reached when the ability to employ a capability to the mandated level is achieved. Note: FOC is unique to each capability and is identified in applicable documentation. FOC normally occurs when the required infrastructure, personnel, training and support are fully in place.
FMV	Full Motion Video	FMV refers to live video and can be analyzed in near real time to provide up to the second intelligence to decision makers.
FD	Force Development	A system of integrated and interdependent processes used to identify, conceptualize and implement necessary changes to existing capabilities or to develop new capabilities.
FE	Force Employment	1. At the strategic level, the application of military means in support of strategic objectives. 2. At the operational level, the command, control and sustainment of allocated forces.
FG	Force Generation	The process of organizing, training and equipping forces for force employment.
GPS	Global Positioning System	A navigation system based on the transmission of signals from satellites provided and maintained by the United States of America and available to civil aviation users.
	Handover	The act of passing control of a UA and/or a payload from one Control Station to another and/or transferring of data link control.
	Heavy Fuel	Navy high flashpoint (flashpoint >60° C) fuels such as F-44 (JP-5 AVCAT/FSII) and F-76 (Naval Distillate).
	Imagery	Visual media (still frame, motion video, film or digital photographs).
ICT	Initial Cadre Training	ICT is training which enables CAF members to perform the tasks associated with new equipment, systems or directives upon their fielding, delivery or initiation. The responsibility for this training rests with the Project Management Office/Prime Contractor for new equipment and systems, unless specified otherwise in the statement of requirements.

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IED	Improvised Explosive Device	A device placed or fabricated in an improvised manner incorporating destructive, lethal, noxious, pyrotechnic or incendiary chemicals and designed to destroy, incapacitate, harass or distract. Note: It may incorporate military stores, but is normally devised from non-military components.
IFF	Identification, Friend or Foe	A system using electromagnetic transmissions to which equipment carried by friendly forces automatically responds, for example, by emitting pulses, thereby distinguishing themselves from enemy forces.
IOC	Initial Operational Capability	The milestone reached when the ability to employ a capability is first attained. Note: IOC is unique to each capability and is identified in applicable documentation. IOC normally occurs when adequate infrastructure, personnel, training and support are in place.
IR	Infrared	Optical radiation for which the wavelengths in vacuum are longer than those for visible radiation, that approximately between 780 nm and 1 mm. An infrared sensor is an electronic instrument which is used to sense certain characteristics of its surroundings by either emitting and/or detecting infrared radiation. Infrared sensors are also capable of measuring the heat being emitted by an object and detecting motion
ISO (Container)	International Organization for Standardization	ISO (or intermodal) containers are used for the intermodal transport of freight. They are manufactured according to specifications from the International Organization for Standardization and are suitable for multiple transportation methods such as truck, rail, or ship.
ISS	In-service Support	All activities, including, but not limited to, engineering services (such as maintenance, repair, test and upgrade), logistics (such as parts supply, documentation and training) and related management functions, necessary to maintain a CF platform throughout its service life.

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ISTAR	Intelligence, Surveillance, Target Acquisition and Reconnaissance	A grouping of information collection, processing, dissemination and communication assets designed, structured, linked and disciplined to provide situational awareness to support targeting and decision making.
LOS	Line of Sight	In communications, a direct propagation path that does not go below the radio horizon.
MC	Mission Commander	The Mission Commander is the senior member and will be responsible for the safety of the detachment members and overall UA operations. The MC will be able to command UA missions, generate a pre-flight plan, and coordinate all UA activities prior to, during and post- flight operations. UAS operator qualification and live experience will be a pre-requisite for MC qualification.
MGRS	Military Grid Reference System	A system which uses a standard-scaled grid square, based on a point of origin on a map projection of the surface of the earth in an accurate and consistent manner to permit either position referencing or the computation of direction and distance between grid positions.
MIO	Maritime Interdiction Operations	An operation conducted to enforce prohibition on the maritime movement of specified persons or material within a defined geographic area.
	Mission	One or more tasks with defined purpose assigned to be completed within a Sortie. As a simplified example, a mission may be to search a defined area to detect and identify a Contact of Interest and report the location to the Commander.
MOB	Main Operating Base	
MSL	Mean Sea Level	The average sea level for a particular geographical location, obtained from numerous observations, at regular intervals, over a long period of time.
	Metadata	Information describing specific attributes of data.
NATO	North Atlantic Treaty Organization	NATO is an alliance of countries from Europe and North America. It provides a unique link between these two continents, enabling them to consult and cooperate in the field of defence

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		and security, and conduct multinational crisis-management operations together
	Naval Liaison Officer	A UAS detachment Liaison Officer provided by the RCN for shipboard operations to assist the service provider in facilitating air space integration, mission coordination, and deconfliction during COCO operations.
OEM	Original Equipment Manufacturer	
OTH	Over the Horizon	OTH is usually used to describe when a ship's ability to build and maintain the recognized maritime picture is beyond the range of the ship's fitted sensors (radars, EO/IR, etc.) and visual detection range.
	Payload	UAS sensor systems and associated recording devices that are installed on the UA (internally or externally) and are used to accomplish a specified mission. *Payloads* also include weapons, chaff, pamphlets, on-board systems, etc.
PED	Processing, Exploitation and Dissemination	In joint doctrine, PED is a general concept that facilitates the allocation of assets to support intelligence operations. Under the PED concept, planners examine all collection assets and then determine if allocation of additional personnel and systems is required to support the exploitation of the collected information. Accounting for PED facilitates processing collected information into usable and relevant information for subsequent all-source production in a timely manner.
POL	Petroleum, Oil and Lubricants	
RARM	Record of Airworthiness Risk Assessments	
RCAF	Royal Canadian Air Force	
RCN	Royal Canadian Navy	
	Reconnaissance	A mission undertaken to obtain, by visual observation or other detection methods, information about the activities and resources of an enemy, potential enemy or contact of interest, or to secure data concerning the meteorological, hydrographic, or geographic characteristics of a particular area.

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	Reliability	The ability of an item to be in a state to perform a required function under given conditions over a given time interval, assuming that the required external resources are provided.
RF	Radio Frequency	The frequency of a periodic radio wave or of the corresponding electrical oscillation.
	Route	A defined course of travel through a series of waypoints.
	Route Leg	The segment of a route between two waypoints.
RTS	Release to Service	
RVT	Remote Video Terminal	A portable device able to receive sensor payload imagery directly from the UA, within LOS of the UA, or relayed via alternate means.
SAR	Synthetic Aperture Radar	A side-looking radar in which spatial resolution in the direction of the route of the vehicle is improved by a special processing of the back scattered signal. Note: Signal processing is mainly the superposition of the successive echoes from the same point identified by Doppler effect.
	Sensor Image Overlay	All displayed information that has been add on to still or moving images from a sensor. This includes such things as time, reticle, modes, elevation, heading, azimuth, range, field of view, etc.
	Sortie	An operational flight of one aircraft. The Sortie includes the launch, transit, execution of the mission, return and recovery. It does not include the pre-mission planning or post mission analysis.
SPFP	Specific Purpose Flight Permit	
TDA	Tactical Decision Aids	
TS	Training Simulation	The means to conduct training and pre-mission rehearsal using both simulated and recorded data, at a training establishment or in a theatre of operations either ashore or at sea.
UA	Unmanned Aircraft	An aircraft that uses aerodynamic forces to provide vehicle lift, can fly autonomously or be piloted remotely, can be expendable or recoverable. Unmanned Aircraft may also be referred to as Remotely Piloted Aircraft (RPA) or Unmanned Air Vehicle (UAV).

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UAS	Unmanned Aircraft System	The entire system consisting of the Unmanned Aircraft (UA), Ground Control Station (GCS), antenna(s), payloads, spare parts, batteries, petroleum, oil, lubricants, first level maintenance repair kit, tools, and weatherproof equipment storage cases.
UTM	Universal Transverse Mercator	A grid coordinate system based on the transverse Mercator projection, applied to maps of the earth's surface extending to 84 N and 80 S latitudes.
VOI	Vessel of Interest	A vessel of potential police, intelligence or counter-intelligence value, said value being the result of a vessel's registry, cargo, route, behaviour or activities.
	Zeroize	Render electronic data unrecoverable. This can be accomplished by various means, such as: removing power from volatile memory; destruction of the data media; successive overwriting algorithms; deletion of the encryption key in encrypted storage; or other actions that will ensure the data cannot be recovered.

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