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K1A 0S5  
Bid Fax: (819) 997-9776

**LETTER OF INTEREST**  
**LETTRE D'INTÉRÊT**

Comments - Commentaires

<b>Title - Sujet</b> SIMULATION ENTITY MODELS	
<b>Solicitation No. - N° de l'invitation</b> W8475-135211/A	<b>Date</b> 2012-10-03
<b>Client Reference No. - N° de référence du client</b> W8475-135211	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$\$\$EE-048-24965
<b>File No. - N° de dossier</b> 048ee.W8475-135211	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2012-10-19</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Friesen, Manon	<b>Buyer Id - Id de l'acheteur</b> 048ee
<b>Telephone No. - N° de téléphone</b> (819) 956-1161 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE DAEPM (R&CS) 6-3 101 COLONEL BY DR. OTTAWA Ontario K1A0K2 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address  
Raison sociale et adresse du  
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution  
Systems Software Procurement Division / Division des  
achats des logiciels d'exploitation  
11 Laurier St. / 11 rue, Laurier  
4C1, Place du Portage, Phase III  
Gatineau  
Quebec  
K1A 0S5

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
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<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

# Request for Information (RFI) regarding Simulation Entity Models (SEM) For the Department of National Defence (DND)

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**Annex A: Draft Statement of Work - The Provision of Simulation Entity Models  
RFI for the Canadian Advanced Synthetic Environment (CASE)**

**Annex B: Draft Basis of Payment for the Simulation Entity Models RFI**

**Annex C: RFI Questions**

# Request for Information (RFI) regarding Simulation Entity Models For the Department of National Defence (DND)

## A. 1 Background and Purpose of this Request for Information (RFI)

The Government of Canada is seeking information from Industry with respect to the simulated entity modeling needs of the Canadian Advance Synthetic Environment (CASE) Project for the Department of National Defence (DND).

## A. 2 Nature of Request for Information

This is not a bid solicitation. This RFI will not result in the award of any contract. As a result, potential suppliers of any goods or services described in this RFI should not reserve stock or facilities, nor allocate resources, as a result of any information contained in this RFI. Nor will this RFI result in the creation of any source list. Therefore, whether or not any potential supplier responds to this RFI will not preclude that supplier from participating in any future procurement. Also, the procurement of any of the goods and services described in this RFI will not necessarily follow this RFI. This RFI is simply intended to solicit feedback from industry with respect to the matters described in this RFI.

## A. 3 Nature and Format of Responses Requested

Respondents are requested to provide their comments, concerns and, where applicable, alternative recommendations regarding how the requirements or objectives described in this RFI could be satisfied. Respondents are also invited to provide comments regarding the content, format and/or organization of any draft documents included in this RFI. Respondents should explain any assumptions they make in their responses. Documents may be submitted in either official language of Canada.

## A. 4 Response Costs

Canada will not reimburse any respondent for expenses incurred in responding to this RFI.

## A. 5 Treatment of Responses

- (a) **Use of Responses:** Responses will not be formally evaluated. However, the responses received may be used by Canada to develop or modify procurement strategies or any draft documents contained in this RFI. If Canada deems it appropriate, it may consider responses received after the closing date of the RFI. Please note that responses to this RFI will not be used to pre-qualify or otherwise restrict participation in any future RFP.
- (b) **Review Team:** A review team composed of representatives of the client (where applicable) and PWGSC will review the responses. Canada reserves the right to hire any independent consultant, or use any Government resources that it considers necessary to review any response. Not all members of the review team will necessarily review all responses.

- (c) **Confidentiality:** Respondents should mark any portions of their response that they consider proprietary or confidential. Canada will handle the responses in accordance with the *Access to Information Act*.
- (d) **Follow-up Activity:** Canada may, in its discretion, contact any respondents to follow up with additional questions or for clarification of any aspect of a response or to request a meeting.

#### A. 6 Contents of this RFI

- (a) This RFI contains a draft Statement of Work (see Annex A). This document remains a work in progress and respondents should not assume that new clauses or requirements will not be added to any bid solicitation that is ultimately published by Canada. Nor should respondents assume that none of the clauses or requirements will be deleted or revised. Comments regarding any aspect of the draft document are welcome.
- (b) This RFI contains a draft Basis of Payment (see Annex B).
- (c) This RFI also contains specific questions addressed to the industry to be answered (see Annex C).

#### A. 7 Format of Responses

- (a) **Cover Page:** If the response includes multiple volumes, respondents are requested to indicate on the front cover page of each volume the title of the response, the solicitation number, the volume number and the full legal name of the respondent.
- (b) **Title Page:** The first page of each volume of the response, after the cover page, should be the title page, which should contain:
  - (i) the title of the respondent's response and the volume number;
  - (ii) the name and address of the respondent;
  - (iii) the name, address and telephone number of the respondent's contact;
  - (iv) the date; and
  - (v) the RFI number.
- (c) **Numbering System:** Respondents are requested to prepare their response using a numbering system corresponding to the one in this RFI. All references to descriptive material, technical manuals and brochures included as part of the response should be referenced accordingly.
- (d) **Number of Copies:** Canada requests that respondents submit 3 hard copies and one CD of their responses.

#### A. 8 Enquiries

Because this is not a bid solicitation, Canada will not necessarily respond to enquiries in writing or by circulating answers to all potential suppliers. However, respondents with questions regarding this RFI may direct their enquiries to:

Public Works and Government Services Canada  
Enterprise Management Software Procurement Division (XL)  
Place du Portage Phase III 4C1, Stn #57  
11 Laurier Street  
Gatineau, Quebec  
K1A 0S5

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Attention: Manon Friesen  
Supply Specialist  
Software & Shared Systems Procurement Directorate (SSSPD)  
11 Laurier Street  
Gatineau, QC K1A 0S5  
Phase III, 4C1, Stn #57  
Telephone: (819) 956-1161  
E-mail: manon.friesen@pwgsc-tpsgc.gc.ca

#### A. 9 Submission of Responses

- (a) **Time and Place for Submission of Responses:** Suppliers interested in providing a response should deliver it to the Contracting Authority identified above by the time and date indicated on page 1 of this document. However, comments received after that date will be given consideration if received prior to the release of the final RFP.
- (b) **Responsibility for Timely Delivery:** Each respondent is solely responsible for ensuring its response is delivered on time to the correct location.
- (c) **Identification of Response:** Each respondent should ensure that its name and return address, the solicitation number and the closing date appear legibly on the outside of the response.

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## **ANNEX A**

### **Draft Statement of Work**

#### **The Provision of Simulation Entity Models RFI for the Canadian Advanced Synthetic Environment (CASE)**

**(see attached)**

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## **ANNEX B**

### **Draft Basis of Payment For the Simulation Entity Models RFI (see attached)**

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## **ANNEX C**

### **RFI Questions**

#### **Question #1**

Annex A: Draft Statement of Work (SOW) for the Simulation Entity Models RFI, Section 3.2, DND Usage and Licensing:

Do you find the licensing unit of measure and terms in the SOW acceptable? If not, explain. Include any suggestions to aid DND in achieving a similar or better result.

#### **Question #2**

Annex B: Draft Basis of Payment for the Simulation Entity Models RFI:

The proposed Basis of Payment is firm fixed price per enterprise license per model. Is this acceptable? If not, explain. Include any suggestions to aid DND in achieving a similar or better result.

#### **Question #3**

Annex B: Draft Basis of Payment for the Simulation Entity Models RFI, Tables 1 to 5:  
Do you find the delivery schedule acceptable? If not, explain. Include any suggestions to aid DND in achieving a similar or better result.

#### **Question #4**

Do the simulation visual models you produce typically have any distribution restrictions on them as a result of International Traffic in Arms Regulations (ITAR) or Controlled Technology Access and Transfer (CTAT)? If so, how could these types of restrictions be avoided under the context of this SOW?

#### **Question #5**

What would your bidding strategy be for this RFP? Examples: using and/or modifying existing library of models, purchasing models from a third party and adapting them, building new models from scratch, partnering with another provider for some of the models, only bidding on a portion of the required models.



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### **Question #6**

Could you see your organization being involved in a Standing Offer (SO) arrangement for products of this type? What would be a suitable basis for payment under a SO arrangement?

### **Question #7**

Annex A: Draft Statement of Work (SOW) for the Simulation Entity Models RFI, Appendix 1, Simulation Entity Model Specification:

Do the technical requirements stipulated in Appendix 1 seem appropriate? Are there any requirements that are conflicting with one another? Any that you believe could limit your ability to comply? Any that would impede the functioning/performance of the model products for real time simulation?

### **Question #8**

Annex A: Draft Statement of Work (SOW) for the Simulation Entity Models RFI, Appendix 2, Technical Evaluation:

Do you find the proposed methodology for the technical evaluation acceptable? If not, explain. Include any suggestions to aid DND in achieving a similar or better result.

### **Question #9**

Does your company have experience working with VBS2? Would you have the technical expertise to convert these models for use in VBS2? To what extent would you provide for game engine integration (ie: doctrine, embarkation in vehicles, manned position views and weapons, articulations, damage tolerance etc)? To your knowledge, is there value in investing in developing VBS2 models now, considering that a new version of the software with a new graphics engine is under development by the OEM?

### **Question #10**

Are there any additional suggestions?

**DEPARTMENT OF NATIONAL DEFENCE (DND)**



**REQUISITION NO. W8475-135211**

**ANNEX A - STATEMENT OF WORK**

**THE PROVISION OF SIMULATION ENTITY MODELS**

**FOR THE CANADIAN ADVANCED SYNTHETIC ENVIRONMENT (CASE)**

Prepared by:

DAEPM(R&CS) 6  
National Defence Headquarters  
Major General George R. Pearkes Building  
Ottawa, Ontario  
K1A 0K2

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## 1.0 SCOPE

### 1.1 Purpose

1.1.1 This Statement of Work (SOW) defines the work to be completed and deliverables to be provided in order to meet the simulated entity modeling needs of future Canadian Advanced Synthetic Environment (CASE) exercises and training events.

### 1.2 Background

1.2.1 The past several years have seen a marked increase in the application of Modelling and Simulation (M&S) throughout the Department of National Defence (DND) for a variety of purposes including doctrine development, R&D, requirements definition, and training.

1.2.2 The CASE project was created with the goal of providing a distributed simulation environment that will allow for the linking of simulators and simulation centres from various branches of the Canadian Forces to achieve combined, collaborative training. This training will be accomplished through the execution of simulated real time, event based, interactive scenarios.

1.2.3 Operators participating in these training events observe their simulated surroundings via displays, fed by image generation (IG) computer software. The image generation software requires 3D visual models for all elements in order to render them. This includes but is not limited to vehicles, humans, animals, plants, and buildings. GenesisRTX, from Cogent3D, is the primary IG for CASE simulators.

### 1.3 List of Acronyms / Terminology

M&S	Modelling and simulation
DND	Department of National Defence
CASE	Canadian Advanced Synthetic Environment
IG	Image Generator
.flt	Openflight
NLT	No later than
LOD	Level of detail
MDD	Model Description Document
CDRL	Contract Data Requirement List
TA	Technical Authority
CA	Contracting Authority
TD	Test Director
IR	Infrared
NVG	Night Vision Goggles
OTW	Out the Window

## 2.0 APPLICABLE DOCUMENTS

### 2.1 Industry Standards

2.1.1 Openflight Scene Description Database Specification, Version 16.4 Document Revision A, June 2009, [http://www.presagis.com/products\\_services/standards/openflight/](http://www.presagis.com/products_services/standards/openflight/)

2.1.2 World Geodetic System 1984, NIMA TR8350.2 Third Addition Amendment 1, January 2000, <http://earth-info.nga.mil/GandG/publications/tr8350.2/wgs84fin.pdf>.

2.1.3 In the event of a conflict between the text of this SOW and the references cited herein, this SOW shall take precedence.

## 3.0 REQUIREMENTS

### 3.1 Tasks

#### 3.1.1 Simulation Entity Models

3.1.1.1 The Contractor must produce and deliver the simulation entity models listed in Annex B, Basis of Payment.

3.1.1.2 The Contractor must produce simulation entity models in accordance with Appendix 1 - Simulation Entity Model Specification.

#### 3.1.2 Documentation

3.1.2.1 The Contractor must produce and deliver a Model Description Document (MDD) for each deliverable entity model. DND will use the MDD for cataloguing purposes and for reference.

3.1.2.2 The MDD must be delivered as a soft copy Word .doc or .docx file. A draft copy shall be submitted to DND Technical Authority (TA) for review, to ensure the planned implementation contains the required features to meet the needs of CASE scenarios. The TA will respond with comments within 10 working days. The final copy shall be delivered in the same folder as the entity model itself. The Model Description Document file shall have the same name as the model it describes, with a different extension. If necessary, it will also include a version number. This report shall be provided to the TA..

3.1.2.3 Each MDD shall include, at a minimum, a description of the following model details:

- a. Orthographic views of the rendered model, as well and an isometric view;
- b. A representation of the hierarchy of the model;
- c. The names of all switch nodes, the possible values, and their effects;
- d. A list of articulated parts and their ranges of motion.

- e. A list of all animations;
- f. A list of light points;
- g. A list of all textures used in the model, and their paths;
- h. The model dimensions and bounding volume.

3.1.2.4 File Structure: The set of models must be provided in a logically grouped folder structure. For example, they may be divided by platform type and nationality. In addition to the folder structure, the files names must contain sufficient detail to clearly identify the key elements of the model (including the specific configuration, if applicable).

### 3.1.3 Kick-off Meeting

3.1.3.1 A kick-off meeting will take place as soon as practical after contract award (at least within 1 month). This meeting shall be convened via DND hosted telecom. During this meeting, the schedule for the delivery of the models will be discussed and agreed upon.

### 3.1.4 Task Authorization Work

3.1.3.1 There will be a requirement for the provision of Task Authorization Work for additional technical support, to be performed on an “As-and-When Requested” basis. This support will focus on optimizing the simulation entity models and assisting DND in their integration. These tasks are not limited to, but could include the following:

- a. Modification of models:
  - i. Adding and mapping additional textures such as night, infrared (IR) possibly to be compatible with SigSim and SenSim from JRM technologies, simulated night vision goggle (NVG), or different environmental camouflages and nationalities;
  - ii. Adding higher levels of detail (LOD);
  - iii. Adding appropriate material attribution codes to the surface polygons of the models.
  - iv. Adding new entity states or animations.
- b. Creation of new models not originally specified in Annex B, Basis of Payment;
- c. Integration support for IGs other than GenesisRTX or third party tools.
- d. Modifications to or documentation of existing CASE / DND owned models.
- e. Producing metadata files for CASE / DND owned models to support ingestion into a cataloguing database. One possible database is the Army Synthetic Environment Resource Repository (SERR).

## 3.2 **DND Usage and Licencing**

3.2.1 DND will be granted the rights to use, make copies of, and distribute all models within DND without restriction.

3.2.1.1 DND will be granted the rights to modify the models provided and to produce derivative works. Such work may be performed by third party contractors. In the case that modifications are made by a third party, the intellectual property rights granted to that third party will include those elements of the new model which are completely independent (seperable) from the original model. The intellectual property rights for the original model, provided as background information, remain with its original creator.

3.2.2 DND will be granted the rights to use, make copies of, and distribute all models to third parties, which could include, but are not limited to, our NATO allies. This distribution would be for exclusive use in distributed mission training events and exercises in Canada and abroad, and subsequent return to DND.

### **3.3 Client Support**

3.3.1 DND will provide photographs of Canada specific military vehicles where Canadian marking and physical configurations are required.

3.3.2 In general, however, the Contractor shall be responsible for information gathering and research using publicly available data sources and reference material to establish the appearance and physical shapes of the required models.

## **4.0 DELIVERABLES**

4.1.1 All works produced under this contract shall be delivered to DND on a permanent storage medium such as DVD. They shall be delivered to the TA in accordance with the schedule agreed upon during the contract kick-off meeting. Deliverables include the following:

- a. Simulation Entity Models
- b. Model Description Documents (MDDs).

## **5.0 ACCEPTANCE / TESTING**

5.1.1 DND will conduct quality assurance (QA) checks of the delivered models for compliance with Appendix 1 – Simulation Entity Model Specification. The QA testing will:

- c. Be conducted by a TA appointed Test Director (TD);
- d. Normally be conducted for a random sample of approximately 20% of models in each delivery. However, DND reserves the right to test any and all models;
- e. Be done using the Genesis RTX IG and Presagis Creator (at a minimum);
- f. Verify the appearance and functionality outlined in the Model Description Document;

- g. Result in the production of a test report indicating the acceptance of the model or the changes required;
- h. Be done according to a mutually agreed upon schedule.



## Appendix 1- Simulation Entity Model Specification

**A.1 Introduction:** This specification contains the mandatory requirements for the Work to be performed under the Statement of Work (SOW) for the Provision of Simulation Entity Models for the Canadian Advanced Synthetic Environment (CASE).

### Model Requirements

**A.2 Platform:** All entity models must be developed for Genesis RTX. Genesis will operate using the CIGI interface, with updates provide via HLA network traffic.

**A.3 Format:** All entity models must be built in Openflight (.flt) format according to the Openflight Scene Description Database Specification version 16.4.

**A.4 References:** All entity models must not contain any external references.

**A.5 Lighting:** All polygons must be lit.

**A.6 Hierarchy:** All entity models must be structured to contain the following elements in their hierarchy:

- a. Models must have a damage state switch with textured geometry to represent each state.
- b. There must be at least two states representing dead / alive.
  - (1) The alive state must have a minimum of 3 model levels LODs and a switch node to change between them.
  - (2) The initial switch distance for the highest detail LOD of the alive state must be set to 10 000 m.
  - (3) The “dead” state must have 3 LODs and a switch node to change between them.
- c. In the alive state, human lifeform entities must be able to exhibit the following stance codes:
  - (1) Upright
  - (2) Kneeling
  - (3) Prone / Crawling
- d. In the alive state, human military or combatant lifeform entities must be able to exhibit the following primary and secondary weapon states:
  - (1) Stowed
  - (2) Deployed
  - (3) Firing Position
- e. Switch nodes must be in place to control all animations.
- f. Switch nodes must be in place to control all light points.

**A.7 Geometry:** The following restrictions apply to the geometry of the entity models:

- a. Any transformations (matrices) used in the model must be converted to geometry.
- b. If greater than 3 levels of details exist, a subset of at least 3 LOD must exist, where the most detailed contains no more than 2000 polygons. This will serve as the highest runtime LOD used in Genesis RTX. The highest LOD must meet the following sub-requirements:
  - (1) The model must be free of any obvious visual discontinuities or sharp geometries not present in the real world object.

- (2) The textures must be of sufficient resolution and detail to positively identify the entity. Features to be observed include: color, marking of nationality, registration, tail or license number etc.
- c. The non-geometric criteria apply to the highest LOD. It is not needed that the lower LODs meet all of these requirements, however it is desirable to preserve as many of the features as possible.
- d. It is acceptable for the models to have additional higher detail LODs.

**A.8 Animations:** The following animations apply to the various types of models:

- a. All land based vehicles models must have animated wheels or tracks to represent being in motion. A switch node must exist to control the activation of this animation and must be turned on by default.
- b. Lifeforms must have switch nodes to control any animations that exist. These models must be motionless by default.
- c. Airborne entities with propellers and rotor blades must have these components animated. A switch node must exist to control these animations and must be active by default.
- d. Civilian and combatant surface sea vessels must have a scalable wake texture to denote motion. A switch node must exist to control these animations and must be inactive by default.
- e. Surface and subsurface naval ships must have animated propellers.
- f. Missiles must have a contrail. A switch node must exist to control these animations and must be active by default.

**A.8 Articulated Parts:** The following articulated parts must be included in the various models types:

- a. If applicable, land based vehicles must have articulated wheels.
- b. Anti-aircraft & Missile Systems and Armored & Fighting Vehicles must have the following articulated parts, as applicable: Gun, Trailer/Tractor, Turret, Launcher, Radar, Sensor, Wheels, Sprocket, and Idler.
- c. Artillery and Utility Vehicles must have the following articulated parts, as applicable: Gun, Trailer/Tractor, Turret, Missile Launcher, and Wheels.
- d. Artillery and Utility Vehicles must have the following articulated parts, as applicable: Gun, Trailer/Tractor, Turret, Missile Launcher, and Wheels.
- e. Battle Tanks must have the following articulated parts, as applicable: Gun, Trailer/Tractor, Turret, Missile Launcher, and Wheels.
- f. Fixed wing aircraft must have articulated guns where applicable.
- g. Rotary wing aircraft must have articulated cargo doors if appropriate.
- h. Missiles must have stages if appropriate.
- i. Subsurface naval ships must have articulated periscopes, antennas and sensors, as appropriate.
- j. Surface naval ships must have the following articulated parts, as appropriate: Gun, Turret, Launcher, Defence systems, Radar, Sensors, and Elevators.

**A.9 Light points:** All models must include appropriate light points to support night operations. The following light attributes are supported by Genesis:

- a. Appearance:
  - (1) Actual size (or diameter)

- (2) Fade range ratio
- (3) Visibility range
- (4) Day/dusk/night flags
- (5) Min/max pixel sizes
- (6) Horizontal and vertical lobe angles
- (7) Directionality (omni/bi/uni)
- (8) Use back color flag, and back color

b. Animations:

- (1) Flashing, sequential, rotating
- (2) Period
- (3) Phase delay
- (4) Time on

**A.10 Textures:** The following textures are mandatory for all entity models:

- a. All entities must have day textures.
- b. For those entity models designated as Canada Specific (reference Annex B Basis of Payment) they must have Canadian markings.

**A.11 Coordinate Systems:** Models will be used in a GEO WGS84 coordinate system.

- a. Ground based vehicles must have their local coordinate system origin at the base of the model to facilitate ground clamping.
- b. Sea vessels must have their local coordinate system origin at the waterline of the model to facilitate ground clamping on water.
- c. Air vehicle must have their local coordinate system origin at the approximate centre of gravity.
- d. Positive x must be nose forward in the local coordinate system.

**A.12 Scaling:** Models must be properly scaled with accuracy plus or minus 5%.

**Contractor Capabilities**

**A.13 Textures:** The contractor must be experienced in producing the following types of textures for entity models:

- a. Night textures.
- b. Infrared (IR) textures. Having textures developed to support SigSim and SenSim, from JRM Technologies, is considered an additional asset.
- c. Simulated night vision goggle (NVG) textures.
- d. Textures representing different environmental camouflage or different nationalities.

**A.14 Materials:** The contractor must have the ability to apply material attribution codes to the surface polygons of any model.

## **Appendix 2 – Technical Evaluation**

### **B.1 Technical Requirements - Mandatory**

B.1.1 For the purpose of the technical evaluation, bidders are required to submit samples of entity models, at minimum one vehicle model for each element of land, sea, and air, and one lifeform model. DND will evaluate these sample models in accordance with the mandatory criteria listed in Appendix 1 – Simulation Entity Model Specification. For bidders who are not intending to bid on the lifeform items (reference Annex B, Basis of Payment) a sample lifeform model is not required.

B.1.2 Bidders must demonstrate that they possess all the mandatory capabilities listed in the section Contractor Capabilities in Appendix 1 – Simulation Entity Model Specification. Sample models are to be provided in support of each required capability. These need not be contained in a single model, nor one of the models required at above para B.1.1 . However, each feature listed must be presented in the context of a complete model.

B.1.3 The sample models will be returned to the bidders at the completion of the evaluation.

**ANNEX B: Draft Basis of Payment  
For the Simulation Entity Models RFI**

**Table 1 – Priority 1 Models**

**Delivery schedule – all Priority 1 models must be delivered to DND for acceptance and testing no later than two (2) months after contract award**

Item #	Model Class	Civ/Mil	Canada Specific	Model Description	Cost per Enterprise License (\$ CAD)
1	Improvised Explosive Device (IED)	Mil		MK-84	
2	IED	Mil		Type-63	
3	IED	Mil		Dead dog	
4	IED	Mil		Dead Donkey	
5	IED	Mil		Generic land mines	
6	IED	Mil		Disturbed soil	
7	Armoured & Fighting Vehicle	Mil		RG-31 Nyala + Kongs Protector	
8	Armoured & Fighting Vehicle	Mil		FV-510	
9	Civilian Aircraft	Civ		DC-3	
10	Armoured & Fighting Vehicle	Mil		Husky + trailer	
11	Armoured & Fighting Vehicle	Mil		Buffalo	
12	Armoured & Fighting Vehicle	Mil		Cougar	
13	Lifeforms	Civ		Donkey	
14	Lifeforms	Civ		Cow	
15	Subsurface Naval Ship	Mil		Friendly SSBN	
16	Subsurface Naval Ship	Mil		Opposing SSBN	
17	Civilian Watercraft	Civ		Life raft 6 man	
18	Civilian Watercraft	Civ		Life raft 20 man	
19	Civilian Watercraft	Civ		Inshore fishing vessel	
20	Civilian Watercraft	Civ		Off shore trawler	
21	Civilian Watercraft	Civ		Off shore cargo ship	

**Table 2 – Priority 2 Models**

**Delivery schedule – all Priority 2 models must be delivered to DND for acceptance and testing no later than six (6) months after contract award.**

Item #	Model Class	Civ/Mil	Canada Specific	Model Description	Cost per Enterprise License (\$ CAD)
22	Subsurface Naval Ship	Mil	Y	Victoria Class submarine	
23	Misilles and Weapons	Mil		HARPOON missiles	
24	Misilles and Weapons	Mil		MK46 torpedoes	
25	Misilles and Weapons	Mil		MK 48 torpedoes	
26	Misilles and Weapons	Mil		57mm gun with High Explosive Point Detonation ammunition	
27	Aircraft Rotary Wing	Mil	Y	CH124	
28	Other	Civ		Buoy	
29	Lifeforms	Civ		Afghan Man	
30	Lifeforms	Civ		Afghan Woman	
31	Lifeforms	Civ		Afghan Child	
32	Lifeforms	Civ		Afghan Woman in Burka	
33	Lifeforms	Civ		Civilian Male	
34	Lifeforms	Mil		Taliban Rifleman (AK47)	
35	Lifeforms	Mil		Taliban RPK	
36	Lifeforms	Mil		Taliban PKM	
37	Lifeforms	Mil		Taliban RPG	
38	Lifeforms	Mil		Taliban sniper	
39	Lifeforms	Mil		Taliban Strela (AT4)	
40	Lifeforms	Civ		Caribbean Man	
41	Lifeforms	Civ		Caribbean Woman	
42	Lifeforms	Civ		Caribbean Child	
43	Lifeforms	Civ		Caucasian Man - Arctic clothing	
44	Lifeforms	Civ		Caucasian Woman - Arctic clothing	

45	Lifeforms	Civ		Caucasian Child - Arctic clothing	
46	Subsurface Naval Ship	Mil	Y	Victoria Class submarine	

**Table 3 – Priority 3 Models**

**Delivery Schedule : to be negotiated**

Item #	Model Class	Civ/Mil	Canada Specific	Model Description	Cost per Enterprise License (\$ CAD)
47	Lifeforms	Mil	Y	CADPAT Soldier Arid,	
48	Lifeforms	Mil	Y	CADPAT Soldier Woodland	
49	Lifeforms	Mil	Y	CADPAT AFV Crew AriD	
50	Lifeforms	Mil	Y	CADPAT AFV Crew Woodland	
51	Lifeforms	Mil		Helicopter Pilot Arid	
52	Lifeforms	Mil		Helicopter Pilot Woodland	
53	Lifeforms	Mil		SOF Operator Arid	
54	Lifeforms	Mil		SOF Operator WoodlaND	
55	Armoured & Fighting Vehicle	Mil		LAVIII ISC	
56	Armoured & Fighting Vehicle	Mil		Leopard 1C2	
57	Armoured & Fighting Vehicle	Mil		Leopard 2A4	
58	Armoured & Fighting Vehicle	Mil		LUVW (GWagon)	
59	Armoured & Fighting Vehicle	Mil		LSVW (Iveco 40.10)	
60	Armoured & Fighting Vehicle	Mil		HLVW (Steyr 1491 Percheron)	
61	Armoured & Fighting Vehicle	Mil		AHSV Mercedes (HET tractor)	
62	Armoured & Fighting Vehicle	Mil		HET trailer	
63	Armoured & Fighting Vehicle	Mil		AEV Badger	

64	Armoured & Fighting Vehicle	Mil		HEMTT	
65	Armoured & Fighting Vehicle	Mil		HMMWV-Green	
66	Armoured & Fighting Vehicle	Mil		Engineer and EROC vehicles	
67	Armoured & Fighting Vehicle	Mil		JSFU	
68	Armoured & Fighting Vehicle	Mil		AVLB Beaver	
69	Armoured & Fighting Vehicle	Mil		ARV Taurus	
70	Armoured & Fighting Vehicle	Mil		744RBL MPEV Backhoe/Loader	
71	Armoured & Fighting Vehicle	Mil		LAVIII ISC + Nanuk RWS	
72	Armoured & Fighting Vehicle	Mil		LAVIII TUA	
73	Armoured & Fighting Vehicle	Mil		LAVIII CP (V7 in use)	
74	Armoured & Fighting Vehicle	Mil		LAVIII FOO	
75	Armoured & Fighting Vehicle	Mil		LAVIII Engineer	
76	Armoured & Fighting Vehicle	Mil		LAVIII MMA	
77	Armoured & Fighting Vehicle	Mil		Leo 2A6	
78	Unmanned Vehicles	Mil	Y	Skylark	
79	Unmanned Vehicles	Mil	Y	Heron	
80	Lifeforms	Civ		Goat	
81	Lifeforms	Civ		Sheep	
82	Lifeforms	Civ		Camel	
83	Civilian Vehicles	Civ		Taxi	
84	Civilian Vehicles	Civ		Jingle truck	
85	Civilian Vehicles	Civ		Motor cycle	
86	Civilian Vehicles	Civ		3-wheeled powered rickshaw	
87	Civilian Vehicles	Mil		Pick-up with PKM	
88	Civilian Vehicles	Mil		Pick-up with DSHKM	
89	Civilian Vehicles	Mil		Pick-up with SPG-9	



100	Other	Mil		Flare	
101	Other	Mil		Chaff	
102	Lifeforms	Civ		Afghan Man - Vest Long Shirt	
103	Lifeforms	Civ		Afghan Man - Plaid Shirt	
104	Lifeforms	Civ		Afghan Man - Elderly	
105	Lifeforms	Civ		Suicide Bomber	
106	Lifeforms	Civ		Suicide Bomber - Turban and face covered	
107	Lifeforms	Civ		Suicide Bomber - Plaid and jeans	
108	Lifeforms	Civ		Woman burka pregnant	
109	Lifeforms	Civ		German Shepherd - Bomb Detection Dog	
110	Lifeforms	Civ		Mongrel Dog - brown	
111	Lifeforms	Civ		African Man -Shorts and T-shirt	
112	Lifeforms	Civ		African man - Trousers and T-shirt	
113	Lifeforms	Civ		Asian Child - Shorts and T-shirt	
114	Lifeforms	Civ		Asian Child - Trousers and T-shirt	
115	Lifeforms	Civ		Asian Man - Shorts and T-shirt	
116	Lifeforms	Civ		Caucasian Bandit - AK47	
117	Lifeforms	Civ		Caucasian Bandit - AK47 and RPG7	
118	Lifeforms	Civ		Caucasian Bandit - RPK74	
119	Lifeforms	Civ		Caucasian child - Shorts and T-shirt	
120	Lifeforms	Civ		Caucasian child - Trousers and T-shirt	
121	Lifeforms	Civ		Caucasian Man - Shorts and T-shirt	
122	Lifeforms	Civ		Middle Eastern Child - Shorts and T-shirt	

123	Lifeforms	Civ		Middle Eastern Child - Trousers and T-shirt	
124	Lifeforms	Civ		Paramilitary - AK47	
125	Lifeforms	Civ		Paramilitary - AK47 and RPG7	
126	Lifeforms	Civ		Paramilitary - RPK74	
127	Lifeforms	Civ		African Woman - Sporty Clothes	
128	Lifeforms	Civ		Asian Woman - Jacket and Skirt	
129	Lifeforms	Civ		Caucasian Woman - Jacket and Jeans, Brown hair	
130	Lifeforms	Civ		Caucasian Woman - Jacket and Jeans, Blond hair	
131	Lifeforms	Civ		Iraqi Dock Work - Reflective Vest and Hard Hat	
132	Lifeforms	Civ		Iraqi Elder	
133	Lifeforms	Civ		Iraqi Elder - Suicide Bomber	
134	Lifeforms	Civ		Insurgent 1 - Various Weapons	
135	Lifeforms	Civ		Insurgent 2 - Various Weapons	
136	Lifeforms	Civ		Insurgent 3 - Various Weapons	
137	Lifeforms	Civ		Insurgent 4 - Various Weapons	
138	Lifeforms	Civ		Insurgent 5 - Various Weapons	
139	Lifeforms	Civ		Middle Eastern Police Officer	
140	Lifeforms	Civ		Middle Eastern Security Force	
141	Lifeforms	Civ		Camera Man	
142	Lifeforms	Civ		Reporter	
143	Lifeforms	Civ		Business man - Multiple suit colors	
144	Lifeforms	Civ		Civilian male - warm clothes	

145	Lifeforms	Civ		Business woman - light clothes	
146	Aircraft Fixed Wing	Mil		A-10A	
147	Aircraft Fixed Wing	Mil		A-50U	
148	Aircraft Fixed Wing	Mil		AV-8Bgray	
149	Aircraft Fixed Wing	Mil		B-1B	
150	Aircraft Fixed Wing	Mil		B-2	
151	Aircraft Fixed Wing	Mil		B-52H	
152	Civilian Aircraft	Civ		Cessna with Banner	
153	Civilian Aircraft	Civ		Beech-King-Air	
154	Aircraft Fixed Wing	Mil		C-21A	
155	Aircraft Fixed Wing	Mil	Y	CC-130 tanker	
156	Aircraft Fixed Wing	Mil	Y	CC-150 tanker	
157	Aircraft Fixed Wing	Mil		CF-18a	
158	Aircraft Fixed Wing	Mil		CF-18b	
159	Aircraft Fixed Wing	Mil		CH-146-Camo	
160	Aircraft Fixed Wing	Mil		CH-148	
161	Aircraft Fixed Wing	Mil		CP-140	
162	Aircraft Fixed Wing	Mil		E-2C-Navy	
163	Aircraft Fixed Wing	Mil		E-3C	
164	Aircraft Fixed Wing	Mil		E-8C	
165	Aircraft Fixed Wing	Mil		EA-6b	
166	Aircraft Fixed Wing	Mil		F-1	
167	Aircraft Fixed Wing	Mil		F-117A	
168	Aircraft Fixed Wing	Mil		F-14	
169	Aircraft Fixed Wing	Mil		F-14D	
170	Aircraft Fixed Wing	Mil		F-15A	
171	Aircraft Fixed Wing	Mil		F-15E	
172	Aircraft Fixed Wing	Mil		F-16Cn	
173	Aircraft Fixed Wing	Mil		F-18Cnavy	
174	Aircraft Fixed Wing	Mil		F-18E	
175	Aircraft Fixed Wing	Mil		F-18F	
176	Aircraft Fixed Wing	Mil		F-4E	
177	Aircraft Fixed Wing	Mil		F-5E	
178	Aircraft Fixed Wing	Mil		GRMK-4	
179	Aircraft Fixed Wing	Mil		HH-60G	

180	Aircraft Fixed Wing	Mil		KS-12	
181	Aircraft Fixed Wing	Mil		MI-28	
182	Aircraft Fixed Wing	Mil		MiG-21	
183	Aircraft Fixed Wing	Mil		MiG-23	
184	Aircraft Fixed Wing	Mil		MiG-25	
185	Aircraft Fixed Wing	Mil		MiG-27	
186	Aircraft Fixed Wing	Mil		MiG-31	
187	Aircraft Fixed Wing	Mil		Mirage-2000	
188	Aircraft Fixed Wing	Mil		Mirage-5	
189	Aircraft Fixed Wing	Mil		SU-17	
190	Aircraft Fixed Wing	Mil		SU-24M	
191	Aircraft Fixed Wing	Mil		TU-16	
192	Aircraft Fixed Wing	Mil		TU-22	
193	Aircraft Fixed Wing	Mil		TU-22M	
194	Aircraft Fixed Wing	Mil		TU-95H	
195	Aircraft Fixed Wing	Mil		TU-160	
196	Subsurface Naval Ship	Mil		Alfa	
197	Civilian Watercraft	Civ		Baja	
198	Surface Naval Ship	Mil		Fleet-Replenishment-Ship	
199	Subsurface Naval Ship	Mil		Losang	
200	Surface Naval Ship	Mil		Kara	
201	Surface Naval Ship	Mil		Kuznetsov	
202	Surface Naval Ship	Mil		LCAC	
203	Surface Naval Ship	Mil		LCU-1600	
204	Surface Naval Ship	Mil		LEBED	
205	Surface Naval Ship	Mil		Nimitz	
206	Surface Naval Ship	Mil		Serna	
207	Surface Naval Ship	Mil		Sovremenny	
208	Surface Naval Ship	Mil		Ticonderoga	
209	Armored & Fighting Vehicles	Mil		2S6	
210	Armored & Fighting Vehicles	Mil		Billboard	
211	Anti-aircraft & Missile Systems	Mil		Blindfire	

212	Armored & Fighting Vehicles	Mil		BTR-60PB	
213	Armored & Fighting Vehicles	Mil		BV206	
214	Anti-aircraft & Missile Systems	Mil		Clamshell	
215	Anti-aircraft & Missile Systems	Mil		Crotale	
216	Armored & Fighting Vehicles	Mil		Dogear	
217	Anti-aircraft & Missile Systems	Mil		Fansong	
218	Artillery and Utility Vehicles	Mil		Flaplid	
219	Artillery and Utility Vehicles	Mil		Flapwheel	
220	Artillery and Utility Vehicles	Mil		Flatface	
221	Artillery and Utility Vehicles	Mil		Flycatcher	
222	Artillery and Utility Vehicles	Mil		Grillpan	
223	Artillery and Utility Vehicles	Mil		Guideline	
224	Artillery and Utility Vehicles	Mil		HEMTT-Fuel	
225	Artillery and Utility Vehicles	Mil		HMMWV	
226	Artillery and Utility Vehicles	Mil		Longtrack	
227	Artillery and Utility Vehicles	Mil		Lowblow	
228	Artillery and Utility Vehicles	Mil		M1078-Cargo	
229	Artillery and Utility Vehicles	Mil		M1078-Flatbed	
230	Anti-aircraft & Missile Systems	Mil		M163	
231	Anti-aircraft & Missile Systems	Mil		M192	
232	Battle Tanks	Mil		M1A1	
233	Battle Tanks	Mil		M2A3	

234	Anti-aircraft & Missile Systems	Mil		M730-green	
235	Armored & Fighting Vehicles	Mil		M901green	
236	Artillery and Utility Vehicles	Mil		Pathand	
237	Artillery and Utility Vehicles	Mil		PS-70	
238	Anti-aircraft & Missile Systems	Mil		Rapier	
239	Anti-aircraft & Missile Systems	Mil		RBS-70	
240	Anti-aircraft & Missile Systems	Mil		RBS-90	
241	Anti-aircraft & Missile Systems	Mil		Roland-2	
242	Anti-aircraft & Missile Systems	Mil		S-60	
243	Anti-aircraft & Missile Systems	Mil		SA-12	
244	Anti-aircraft & Missile Systems	Mil		SA-15	
245	Anti-aircraft & Missile Systems	Mil		SA-17	
246	Anti-aircraft & Missile Systems	Mil		SA-2	
247	Anti-aircraft & Missile Systems	Mil		SA-4	
248	Anti-aircraft & Missile Systems	Mil		SA-5	
249	Anti-aircraft & Missile Systems	Mil		SA-7	
250	Anti-aircraft & Missile Systems	Mil		SA-7b	
251	Anti-aircraft & Missile Systems	Mil		Shahine	
252	Anti-aircraft & Missile Systems	Mil		Skyguard	
253	Anti-aircraft & Missile Systems	Mil		Skyshield	
254	Artillery and Utility Vehicles	Mil		Snowdrift	

255	Artillery and Utility Vehicles	Mil		Spoonrest	
256	Artillery and Utility Vehicles	Mil		Squarepair	
257	Other	Mil		Squateye	
258	Artillery and Utility Vehicles	Mil		Starstreak-Avenger	
259	Artillery and Utility Vehicles	Mil		Straightflush	
260	Artillery and Utility Vehicles	Mil		SUV	
261	Artillery and Utility Vehicles	Mil		Thinskin	
262	Anti-aircraft & Missile Systems	Mil		ZSU-23-4	
263	Anti-aircraft & Missile Systems	Mil		ZSU-57-2	
264	Anti-aircraft & Missile Systems	Mil		ZU-23	

**Table 4 -- Priority 4 Models**

**Delivery schedule – to be negotiated**

Item #	Model Class	Civ/Mil	Canada Specific	Model Description	Cost per Enterprise License (\$ CAD)
265	Missiles and Weapons	Mil		Browning High Power 9mm Pistol	
266	Missiles and Weapons	Mil		Sig Sauer P225 & P226	
267	Missiles and Weapons	Mil		Remington 870 shotgun	
268	Missiles and Weapons	Mil		C7A2 (M16 with Elcan, M4 buttstock, green w/Peq & Flashlight )	
269	Missiles and Weapons	Mil		C7A2 with M203 w/Peq & Flashlight	
270	Missiles and Weapons	Mil		C8A1 (M4)	
271	Missiles and Weapons	Mil		C9 (FN Minimi)	
272	Missiles and Weapons	Mil		C9A2	

273	Missiles and Weapons	Mil		C6 (FN MAG)	
274	Missiles and Weapons	Mil		C13 frag grenade	
275	Missiles and Weapons	Mil		M3 Carl Gustav 84mm Recoiless Rifle	
276	Missiles and Weapons	Mil		M72 anti tank	
277	Missiles and Weapons	Mil		ERYX anti tank	
278	Missiles and Weapons	Mil		60mm mortar	
279	Missiles and Weapons	Mil		Small Pack (CADPAT TEMPERATE)	
300	Missiles and Weapons	Mil		Small Pack w/522 Radio antenna, accessory pouches attached (CADPAT Temperate)	
301	Missiles and Weapons	Mil		Browning .50HB	
302	Missiles and Weapons	Mil		C3A1 7.62x51 sniper rifle	
303	Missiles and Weapons	Mil		C14 (PGW Timberwolf in .338)	
304	Missiles and Weapons	Mil		MacMillan TAC-50	
305	Missiles and Weapons	Mil		TOW anti tank	
306	Missiles and Weapons	Mil		81mm mortar	
307	Missiles and Weapons	Mil		M777 155mm towed howitzer	
308	Surface Naval Ship	Mil	Y	HMCS Brandon	
309	Surface Naval Ship	Mil	Y	HMCS Winnipeg	
310	Surface Naval Ship	Mil	Y	HMCS Victoria	
311	Surface Naval Ship	Mil	Y	New Royal Canadian Navy (RCN) Arctic Offshore Patrol Ship	
312	Surface Naval Ship	Mil	Y	New RCN Joint Support Ship	
313	Surface Naval Ship	Mil	Y	New RCN Canadian Surface Combatant	



314	Civilian Watercraft	Civ		Queen Marry II	
315	Civilian Watercraft	Civ		Radiance of the Seas	
316	Civilian Watercraft	Civ		Silver Shadow	
317	Civilian Watercraft	Civ		Single Mast	
318	Civilian Watercraft	Civ		Double Mast	
319	Civilian Watercraft	Civ		Ferry	
320	Civilian Watercraft	Civ		MV Caribou	
321	Civilian Watercraft	Civ		Coast Guard Cape Class	
322	Civilian Watercraft	Civ		Coast Guard Point Class	
323	Civilian Watercraft	Civ		CCGS Sambro	
324	Civilian Watercraft	Civ		Over Turned Vessel (OTV)	
325	Civilian Watercraft	Civ		Fishing Vessel Medium	
326	Civilian Watercraft	Civ		Fishing Vessel Small	
327	Civilian Watercraft	Civ		Crab Boat	
328	Civilian Watercraft	Civ		Fast Rescue Craft	
329	Civilian Watercraft	Civ		Canoe	
330	Civilian Watercraft	Civ		Kayak	
331	Civilian Watercraft	Civ		Personal Watercraft	
332	Civilian Watercraft	Civ		The Black Duck	
333	Civilian Watercraft	Civ		CCGS Mamilossa	
334	Civilian Watercraft	Civ		CCGS Earl Grey	
335	Civilian Watercraft	Civ		CCGS Sir Wilfred Laurier	
336	Civilian Watercraft	Civ		USCGC Reliance	
337	Civilian Watercraft	Civ		Lifeboat	
338	Civilian Aircraft	Civ		Cessna 150	
339	Civilian Aircraft	Civ		Cessna 185 (float)	
340	Civilian Aircraft	Civ		Piper Cherokee	
341	Civilian Aircraft	Civ		Grumman goose	
342	Civilian Aircraft	Civ		CC138	
343	Civilian Aircraft	Civ		CC115	
344	Civilian Aircraft	Civ		C27J	
345	Civilian Aircraft	Civ		C295	
346	Civilian Aircraft	Civ		Bell 212	

347	Civilian Aircraft	Civ		Bell 412	
348	Civilian Aircraft	Civ		Bell 206	
349	Civilian Aircraft	Civ		S61	
350	Civilian Aircraft	Civ		R22	
351	Civilian Aircraft	Civ		USCG MH-60T Jayhawk	
352	Civilian Aircraft	Civ		USCG MH-65C Dolphin	
353	Civilian Aircraft	Civ		Ultralight	
354	Civilian Aircraft	Civ		Embraer E-190	
355	Civilian Aircraft	Civ		Boeing 787	
356	Civilian Vehicles	Civ		Snowmobile	
357	Civilian Vehicles	Civ		All Terrain Vehicle	
358	Civilian Vehicles	Civ		Fuel Bowser	
359	Civilian Vehicles	Civ		Police Car	
360	Civilian Vehicles	Civ		RCMP Vehicle	
361	Other	Civ		Panel Marker	
362	Other	Civ		Ice Flow	
363	Other	Civ		Iceberg	
364	Other	Civ		Signal Mirror	
365	Other	Civ		Strobe Light	
366	Lifeforms	Civ		Injured persons	
367	Other	Civ		Smoke Marker	
368	Other	Civ		Data Marker Buoy	
369	Other	Civ		Para Flare	
370	Other	Civ		SAR Tech under opened parachute	
371	Other	Civ		Sea Dye Marker	
372	Other	Civ		Sea Panel Marker	
373	Lifeforms	Civ		Person in Water (PIW)	
374	Other	Civ		Life Jacket	
375	Other	Civ		Debris Field	
376	Other	Civ		Oil Slick	
377	Other	Civ		Signal Fire	
378	Other	Civ		Beacon in water	
379	Other	Civ		Life raft 10 man	
380	Other	Civ		Radar Reflector	
381	Other	Civ		Emergency Locator Transmitter (ELT)	

382	Lifeforms	Civ		Eagles	
383	Lifeforms	Civ		Pelicans	
384	Lifeforms	Civ		Canada Goose	
385	Lifeforms	Civ		Seagulls	
386	Lifeforms	Civ		Whales	
387	Other	Civ		Fuel Cache	
388	Other	Civ		EPIRB/PLB	
389	Other	Civ		Forest fires	
390	Other	Civ		Flood	

**Table 5 – Priority 5 Models**

**Delivery Schedule: to be negotiated**

Item #	Model Class	Civ/Mil	Canada Specific	Model Description	Cost per Enterprise License (\$ CAD)
391	Civilian Aircraft	Civ		DC-10-30	
392	Civilian Vehicles	Civ		Excavator	
393	Civilian Vehicles	Civ		Medical emergency car	
394	Civilian Vehicles	Civ		Medical emergency car Arabic	
395	Civilian Vehicles	Civ		Passenger bus	
396	Civilian Vehicles	Civ		Patrol police car	
397	Civilian Vehicles	Civ		Pick-up medium	
398	Civilian Vehicles	Civ		School bus	
399	Civilian Vehicles	Civ		SUV	
400	Civilian Vehicles	Civ		Tractor trailer	
401	Civilian Vehicles	Civ		Tower crane	
402	Civilian Vehicles	Civ		Truck cargo medium	
403	Civilian Vehicles	Civ		Yellow cab	
404	Civilian Watercraft	Civ		Fishing vessel small Arabic w/pirates	
405	Civilian Watercraft	Civ		Jetski w/pirate	
406	Civilian Watercraft	Civ		Speed boat medium	
407	Civilian Watercraft	Civ		Speed boat medium Arabic w/pirate	
408	Anti-aircraft & Missile Systems	Mil		2S1 M-1974 Gvozika CAMO	
409	Anti-aircraft & Missile Systems	Mil		AMX-30 ROLAND II CAMO	

410	Anti-aircraft & Missile Systems	Mil		AN MPQ-64 SENTINEL RADAR CAMO	
411	Anti-aircraft & Missile Systems	Mil		AVENGER Mounted Stinger CAMO	
412	Anti-aircraft & Missile Systems	Mil		BM-21 CAMO	
413	Anti-aircraft & Missile Systems	Mil		DAF truck shelter brown	
414	Anti-aircraft & Missile Systems	Mil		DAF Truck PATRIOT ECS CAMO	
415	Anti-aircraft & Missile Systems	Mil		MEADS Launcher CAMO	
416	Anti-aircraft & Missile Systems	Mil		MEADS RADAR CAMO	
417	Anti-aircraft & Missile Systems	Mil		MLRS M270 CAMO	
418	Anti-aircraft & Missile Systems	Mil		NASAMS SHOOTER PLATFORM CAMO	
419	Anti-aircraft & Missile Systems	Mil		PATRIOT ECS WITH M927 TRUCK CAMO	
420	Anti-aircraft & Missile Systems	Mil		PATRIOT LAUNCHER M983 TRUCK CAMO	
421	Anti-aircraft & Missile Systems	Mil		PATRIOT RADAR M983 TRUCK CAMO	
422	Anti-aircraft & Missile Systems	Mil		SA-3 Goa SAM LAUNCHER CAMO	
423	Anti-aircraft & Missile Systems	Mil		SA-3 GOA TRUCK MOUNTED CAMO	
424	Anti-aircraft & Missile Systems	Mil		SA-6 GAINFUL CAMO	
425	Anti-aircraft & Missile Systems	Mil		SA-6 STRAIGHT FLUSH CAMO	
426	Anti-aircraft & Missile Systems	Mil		SA-13 GOPHER CAMO	
427	Anti-aircraft & Missile Systems	Mil		SA-15 GAUNTLET TELAR CAMO	
428	Anti-aircraft & Missile Systems	Mil		SA-20 BIG BIRD WITH MAZ TRUCK CAMO	
429	Anti-aircraft & Missile Systems	Mil		SHAHAB-3 ZELZAL3 CAMO	
430	Anti-aircraft & Missile Systems	Mil		SHAHEEN-2 CAMO	

431	Anti-aircraft & Missile Systems	Mil		SS-1C SCUD-B CAMO	
432	Anti-aircraft & Missile Systems	Mil		SS-1C SCUD-C CAMO	
433	Anti-aircraft & Missile Systems	Mil		SS26 ISKANDER CAMO	
434	Anti-aircraft & Missile Systems	Mil		STINGER MANPAD	
435	Anti-aircraft & Missile Systems	Mil		STINGER MANPAD WITH SOLDIER	
436	Anti-aircraft & Missile Systems	Mil		HIMARS CAMO	
437	Anti-aircraft & Missile Systems	Mil		TAEPO DONG-2 TD-2 Platform	
438	Anti-aircraft & Missile Systems	Mil		THAAD LAUNCHER CAMO	
439	Anti-aircraft & Missile Systems	Mil		THAAD RADAR M983 TRUCK CAMO	
440	Anti-aircraft & Missile Systems	Mil		TRML 3D RADAR CAMO	
441	Armoured & Fighting Vehicle	Mil		AAAV CAMO	
442	Armoured & Fighting Vehicle	Mil		AAVP7A1 CAMO	
443	Armoured & Fighting Vehicle	Mil		ASLAV AMBULANCE CAMO	
444	Armoured & Fighting Vehicle	Mil		ASLAV APC CAMO	
445	Armoured & Fighting Vehicle	Mil		BISON AMBULANCE DESERT	
446	Armoured & Fighting Vehicle	Mil		BISON COMMANDER DESERT	
447	Armoured & Fighting Vehicle	Mil		BTR-50 PA CAMO	
448	Armoured & Fighting Vehicle	Mil		BTR-60 PB CAMO	
449	Armoured & Fighting Vehicle	Mil		BTR-60 PU CAMO	
450	Armoured & Fighting Vehicle	Mil		BTR-70 CAMO	
451	Armoured & Fighting Vehicle	Mil		FENNEK CAMO	

452	Armoured & Fighting Vehicle	Mil		FUCHS TPZ A6 CAMO	
453	Armoured & Fighting Vehicle	Mil		FUCHS TPZ AMBULANCE CAMO	
454	Armoured & Fighting Vehicle	Mil		LAV-25 CAMO	
455	Armoured & Fighting Vehicle	Mil		M1068A3 CAMO	
456	Armoured & Fighting Vehicle	Mil		M2A2 CAMO	
457	Armoured & Fighting Vehicle	Mil		M2A3 CAMO	
458	Armoured & Fighting Vehicle	Mil		STRYKER ATGM M1134 M2 CAMO	
459	Armoured & Fighting Vehicle	Mil		STRYKER CAT CAMO	
460	Armoured & Fighting Vehicle	Mil		STRYKER ESV M1132 M2 CAMO	
461	Armoured & Fighting Vehicle	Mil		STRYKER FSV M2 M1131 CAMO	
462	Armoured & Fighting Vehicle	Mil		STRYKER FSV M60 M1131 CAMO	
463	Armoured & Fighting Vehicle	Mil		STRYKER HOWITZER CAMO	
464	Armoured & Fighting Vehicle	Mil		STRYKER ICV M1126 M2 CAMO	
465	Armoured & Fighting Vehicle	Mil		STRYKER ICV M1126 M60 CAMO	
466	Armoured & Fighting Vehicle	Mil		STRYKER ICV M1126 MK19 CAMO	
467	Armoured & Fighting Vehicle	Mil		STRYKER MC60mm M1129 CAMO	
468	Armoured & Fighting Vehicle	Mil		STRYKER MC120mm M1129 CAMO	
469	Armoured & Fighting Vehicle	Mil		STRYKER MEV M1133 CAMO	
470	Armoured & Fighting Vehicle	Mil		STRYKER MGS M1128 M2 CAMO	
471	Armoured & Fighting Vehicle	Mil		STRYKER MGS M1128 M60 CAMO	
472	Armoured & Fighting Vehicle	Mil		STRYKER MGS M1128 MK19 CAMO	

473	Armoured & Fighting Vehicle	Mil		STRYKER NBCRV M1135 M2 CAMO	
474	Armoured & Fighting Vehicle	Mil		STRYKER NBCRV M1135 M60 CAMO	
475	Armoured & Fighting Vehicle	Mil		STRYKER NBCRV M1135 MK19 CAMO	
476	Armoured & Fighting Vehicle	Mil		STRYKER RV M2 M1127 CAMO	
477	Battle Tank	Mil		CENTAURO DESERT	
478	Battle Tank	Mil		T-55 CAMO	
479	Battle Tank	Mil		T-62 CAMO	
480	Battle Tank	Mil		T-99 BLACK EAGLE CAMO	
481	Unmanned Vehicles	Mil		GLOBAL HAWK UAV BLACK	
482	Unmanned Vehicles	Mil		HUNTER SR UAV ARMED	
483	Unmanned Vehicles	Mil		MQ-8A ARMED	
484	Unmanned Vehicles	Mil		MQ-8B ARMED	
485	Aircraft Fixed Wing	Mil		AIRBORNE LASER	
486	Aircraft Fixed Wing	Mil		AIRBORNE LASER	
487	Aircraft Fixed Wing	Mil		ANTONOV AN-32	
488	Aircraft Fixed Wing	Mil		BOEING 707	
489	Aircraft Fixed Wing	Mil		C5 GALAXY	
490	Aircraft Fixed Wing	Mil		II-76 CANDID	
491	Aircraft Fixed Wing	Mil		JAGUAR GR3 ARMED	
492	Aircraft Fixed Wing	Mil		JSTARS	
493	Aircraft Fixed Wing	Mil		KC-130	
494	Aircraft Fixed Wing	Mil		MC-130H Combat Talon II	
495	Aircraft Fixed Wing	Mil		MC-130H Combat Talon II	
496	Aircraft Fixed Wing	Mil		NIMROD MR2	
497	Aircraft Fixed Wing	Mil		P-3P ORION	
498	Aircraft Fixed Wing	Mil		RAFALE M ARMED	
499	Aircraft Fixed Wing	Mil		SU-22 FITTER ARMED	
500	Aircraft Fixed Wing	Mil		SU-30 FLANKER ARMED	

501	Aircraft Fixed Wing	Mil		SU-33 FLANKER ARMED	
502	Aircraft Fixed Wing	Mil		SU-37 FLANKER ARMED	
503	Aircraft Fixed Wing	Mil		TORNADO F3 UNARMED	
504	Aircraft Rotary Wing	Mil		AH-1W Super Cobra ARMED GREY	
505	Aircraft Rotary Wing	Mil		AH-6J LITTLE BIRD ARMED	
506	Aircraft Rotary Wing	Mil		EUROCOPTER COUGAR PUMA	
507	Aircraft Rotary Wing	Mil		LYNX MK8 ARMED	
508	Aircraft Rotary Wing	Mil		MH-6J LITTLE BIRD ARMED	
509	Aircraft Rotary Wing	Mil		Mi-17 ARMED	
510	Aircraft Rotary Wing	Mil		PAH-1 BO-105 ARMED	
511	Aircraft Rotary Wing	Mil		PAH-2 HAP ARMED	
512	Aircraft Rotary Wing	Mil		S-70J SEA HAWK	
513	Aircraft Rotary Wing	Mil		S-70A-9 BLACK HAWK	
514	Artillery & Utility Vehicles	Mil		D30 122mm WITH URAL TRUCK CAMO	
515	Artillery & Utility Vehicles	Mil		FMTV M1083 CARGO CAMO	
516	Artillery & Utility Vehicles	Mil		FMTV M1086 LWB CARGO MHE CAMO	
517	Artillery & Utility Vehicles	Mil		FMTV M1091 Fuel Truck CAMO	
518	Artillery & Utility Vehicles	Mil		HMMWV M966 TOW CAMO	
519	Artillery & Utility Vehicles	Mil		HMMWV M998 CAMO	
520	Artillery & Utility Vehicles	Mil		HMMWV M1025 M2 CAMO	
521	Artillery & Utility Vehicles	Mil		HMMWV M1025 M60 CAMO	
522	Artillery & Utility Vehicles	Mil		HMMWV M1025 MK19 CAMO	
523	Artillery & Utility Vehicles	Mil		HMMWV M1026 M2 CAMO	
524	Artillery & Utility Vehicles	Mil		HMMWV M1026 M60 CAMO	



525	Artillery & Utility Vehicles	Mil		HMMWV M1026 MK19 CAMO	
526	Artillery & Utility Vehicles	Mil		HMMWV M1035 AMBUL CAMO	
527	Artillery & Utility Vehicles	Mil		HMMWV M1036 TOW CAMO	
528	Artillery & Utility Vehicles	Mil		HMMWV M1038 CAMO	
529	Artillery & Utility Vehicles	Mil		HMMWV M1045 TOW CAMO	
530	Artillery & Utility Vehicles	Mil		HMMWV M1046 TOW CAMO	
531	Artillery & Utility Vehicles	Mil		HMMWV M1097A2 CARGO M2 CAMO	
532	Artillery & Utility Vehicles	Mil		HMMWV M1097A2 CARGO M60 CAMO	
533	Artillery & Utility Vehicles	Mil		HMMWV M1097A2 CARGO MK19 CAMO	
534	Artillery & Utility Vehicles	Mil		HMMWV M1097A2 CARGO TROOP CAMO	
535	Artillery & Utility Vehicles	Mil		HMMWV M1114 M2 CAMO	
536	Artillery & Utility Vehicles	Mil		HMMWV M1114 M60 CAMO	
537	Artillery & Utility Vehicles	Mil		HMMWV M1114 MK19 CAMO	
538	Artillery & Utility Vehicles	Mil		HMMWV M1151 M2 CAMO	
539	Artillery & Utility Vehicles	Mil		HMMWV M1165 M2 CAMO	
540	Artillery & Utility Vehicles	Mil		ILTIS DESERT	
541	Artillery & Utility Vehicles	Mil		LG1 105MM MARK II WITH LSVW CAMO	
542	Artillery & Utility Vehicles	Mil		LSVW AMBULANCE DESERT	
543	Artillery & Utility Vehicles	Mil		LSVW CARGO COMMAND POST DESERT	
544	Artillery & Utility Vehicles	Mil		LSVW CARGO FLAT BED DESERT	
545	Artillery & Utility Vehicles	Mil		M102 105mm WITH M985 TRUCK CAMO	

546	Artillery & Utility Vehicles	Mil		M109A3 155MM HOWITZER CAMO	
547	Artillery & Utility Vehicles	Mil		M109A6 155MM HOWITZER CAMO	
548	Artillery & Utility Vehicles	Mil		M198 HOWITZER WITH M939 TRUCK CAMO	
549	Artillery & Utility Vehicles	Mil		M923 5TON TRUCK CAMO	
550	Artillery & Utility Vehicles	Mil		M923A1 5TON TRUCK CAMO	
551	Artillery & Utility Vehicles	Mil		M925 5TON TRUCK CAMO	
552	Artillery & Utility Vehicles	Mil		M925A1 5TON TRUCK CAMO	
553	Artillery & Utility Vehicles	Mil		M927 5TON TRUCK CAMO	
554	Artillery & Utility Vehicles	Mil		M939 5TON TRUCK CAMO	
555	Artillery & Utility Vehicles	Mil		M977 HEMTT Cargo CAMO	
556	Artillery & Utility Vehicles	Mil		M978 HEMTT Fuel Tanker CAMO	
557	Artillery & Utility Vehicles	Mil		M983 HEMTT CAMO	
558	Artillery & Utility Vehicles	Mil		M985 HEMTT Cargo CAMO	
559	Artillery & Utility Vehicles	Mil		MERCEDES BENZ G290 JEEP CAMO	
560	Artillery & Utility Vehicles	Mil		UNIMOG 1300L CARGO TROOP CAMO	
561	Artillery & Utility Vehicles	Mil		URAL 375 TRUCK FAS CAMO	
562	Artillery & Utility Vehicles	Mil		URAL 375D VAN CAMO	
563	Missiles and Weapons	Mil		AA-8 APHID	
564	Missiles and Weapons	Mil		AA-10 ALAMO	
565	Missiles and Weapons	Mil		AA-11 ARCHER	
566	Missiles and Weapons	Mil		AA-12 ADDER	
567	Missiles and Weapons	Mil		AGM-114 HELLFIRE	

568	Missiles and Weapons	Mil		AIM-7 SPARROW MISSILE	
569	Missiles and Weapons	Mil		AT-2	
570	Missiles and Weapons	Mil		BRAHMOS CRUISE MISSILE	
571	Missiles and Weapons	Mil		BRIMSTONE BOMB	
572	Missiles and Weapons	Mil		COMBINED CHAFF FLARE DISPENSER	
573	Missiles and Weapons	Mil		CRV7 ROCKET	
574	Missiles and Weapons	Mil		ERYX MISSILE	
575	Missiles and Weapons	Mil		EXOCET MM40 BLOCK3 MISSILE	
576	Missiles and Weapons	Mil		GBI Ground Based Interceptor MISSILE	
577	Missiles and Weapons	Mil		GBU-31A JDAM	
578	Missiles and Weapons	Mil		JAMMER POD	
579	Missiles and Weapons	Mil		KRYPTON AS-17 MISSILE	
580	Missiles and Weapons	Mil		MATRA MAGIC R550	
581	Missiles and Weapons	Mil		MIM-146A ADATS MISSILE	
582	Missiles and Weapons	Mil		MISTRAL2 MISSILE	
583	Missiles and Weapons	Mil		MK82	
584	Missiles and Weapons	Mil		MK-46 TORPEDO	
585	Missiles and Weapons	Mil		PAC2 PATRIOT MISSILE	
586	Missiles and Weapons	Mil		PAC3 PATRIOT MISSILE	
587	Missiles and Weapons	Mil		RIM66 SM2 BLKIIIA MISSILE	
588	Missiles and Weapons	Mil		RIM161 SM3 BLKI MISSILE	
589	Missiles and Weapons	Mil		RIM162 ESSM MISSILE	
590	Missiles and Weapons	Mil		RIM300A SM3 BLKII MISSILE	
591	Missiles and Weapons	Mil		SA3 GOA S-125	
592	Missiles and Weapons	Mil		SA6 INTERCEPTOR 3M9	
593	Missiles and Weapons	Mil		SA10 INTERCEPTOR 48N6 S300PMU1	
594	Missiles and Weapons	Mil		SCUD-B DESERT	

595	Missiles and Weapons	Mil		SCUD-B GREEN	
596	Missiles and Weapons	Mil		SCUD-C DESERT	
597	Missiles and Weapons	Mil		SCUD-C GREEN	
598	Missiles and Weapons	Mil		SEA SKUA MISSILE	
599	Missiles and Weapons	Mil		SHAHAB-3 MISSILE	
600	Missiles and Weapons	Mil		SHAHEEN-2 MISSILE	
601	Missiles and Weapons	Mil		SKYFLASH AAM	
602	Missiles and Weapons	Mil		STINGER MISSILE	
603	Missiles and Weapons	Mil		TAEPO DONG-2 TD-2 MISSILE	
604	Missiles and Weapons	Mil		THAAD MISSILE	
605	Missiles and Weapons	Mil		TOMAHAWK BGM109 CRUISE MISSILE	
606	Subsurface Naval Ship	Mil		Hr Ms Walrus SSK	
607	Subsurface Naval Ship	Mil		KILO Class	
608	Subsurface Naval Ship	Mil		SSN-688 LOS ANGELES CLASS	
609	Surface Naval Ship	Mil		CG-70 LAKE ERIE	
610	Surface Naval Ship	Mil		D553 ANDREADORIA	
611	Surface Naval Ship	Mil		FAST ATTACK CRAFT	
612	Surface Naval Ship	Mil		HR MS AMSTERDAM	
613	Surface Naval Ship	Mil		JSS A883	
614	Surface Naval Ship	Mil		LCF FRIGET F803	
615	Surface Naval Ship	Mil		LPD2 JOHAN DE WIT L801	
616	Surface Naval Ship	Mil		MCVP M860	
617	Surface Naval Ship	Mil		MFF FRIGATE	
618	Surface Naval Ship	Mil		MHC-51 OSPREY	
619	Surface Naval Ship	Mil		OPV HOLLAND Class P840	
620	Surface Naval Ship	Mil		ORION M645	
621	Surface Naval Ship	Mil		SOVREMENNY DDG 610	
622	Surface Naval Ship	Mil		USS ENTERPRISE CVN-65	
623	Surface Naval Ship	Mil		USS RONALD REAGAN CVN-76	
624	Surface Naval Ship	Mil		USV Spartan Scout	

625	Aircraft Rotary Wing	Mil		S-3B	
626	Aircraft Rotary Wing	Mil		ARH-70	
627	Aircraft Rotary Wing	Mil		SA-342M-Viviane	
628	Aircraft Rotary Wing	Mil		SA-342M	
629	Aircraft Rotary Wing	Mil		Tigre-HAP	
630	Aircraft Fixed Wing	Mil		BAe-Hawk.GB	
631	Aircraft Fixed Wing	Mil		Yak-130	
632	Aircraft Fixed Wing	Mil		AN-12B	
633	Aircraft Fixed Wing	Mil		AN-2	
634	Aircraft Fixed Wing	Mil		AN-26B	
635	Aircraft Fixed Wing	Mil		C-12	
636	Aircraft Fixed Wing	Mil		C-141B	
637	Aircraft Fixed Wing	Mil		C-23-B	
638	Aircraft Fixed Wing	Mil		MV-22B	
639	Aircraft Fixed Wing	Mil		YAL-1A	
640	Aircraft Fixed Wing	Mil		FT-7M	
641	Aircraft Fixed Wing	Mil		J-10	
642	Aircraft Fixed Wing	Mil		L-159A	
643	Aircraft Fixed Wing	Mil		Mirage	
644	Aircraft Fixed Wing	Mil		Rafale-B	
645	Aircraft Fixed Wing	Mil		SU-30MKI	
646	Aircraft Fixed Wing	Mil		T-50	
647	Aircraft Rotary Wing	Mil		OH-6A	
648	Aircraft Fixed Wing	Mil		RC-135S	
649	Aircraft Fixed Wing	Mil		U-2R	
650	Aircraft Fixed Wing	Mil		E-3A	
651	Aircraft Fixed Wing	Mil		KE-3A	
652	Aircraft Fixed Wing	Mil		AT-3A	
653	Aircraft Fixed Wing	Mil		PC-9	
654	Unmanned Vehicles	Mil		Huron-UAV	
655	Unmanned Vehicles	Mil		MQ-1L	
656	Unmanned Vehicles	Mil		Nishant	
657	Unmanned Vehicles	Mil		Orion-UAV	
658	Unmanned Vehicles	Mil		RQ-11B-Raven	
659	Unmanned Vehicles	Mil		RQ-16A	

660	Unmanned Vehicles	Mil		RQ-1A	
661	Unmanned Vehicles	Mil		RQ-7B-1B	
662	Unmanned Vehicles	Mil		ScanEagle-A-15	
663	Unmanned Vehicles	Mil		TIGER-SHARK-LR3	
664	Unmanned Vehicles	Mil		UAV-Integrator	
665	Unmanned Vehicles	Mil		WK450-UAC	
666	Unmanned Vehicles	Mil		X-47B	
667	Aircraft Rotary Wing	Mil		AH-MK9	
668	Aircraft Rotary Wing	Mil		AW-159	
669	Aircraft Rotary Wing	Mil		Mi-26M	
670	Aircraft Rotary Wing	Mil		Mi-2URP	
671	Aircraft Rotary Wing	Mil		SA-330E	
672	Aircraft Rotary Wing	Mil		SA-330H	
673	Anti-aircraft & Missile Systems	Mil		5N62-Square-Pair	
674	Anti-aircraft & Missile Systems	Mil		AN-MPQ-46	
675	Anti-aircraft & Missile Systems	Mil		AN-MPQ-50	
676	Anti-aircraft & Missile Systems	Mil		AN-MPQ-51	
677	Anti-aircraft & Missile Systems	Mil		AN-MPQ-53	
678	Anti-aircraft & Missile Systems	Mil		AN-MPQ-55	
679	Anti-aircraft & Missile Systems	Mil		AN-TWQ-1	
680	Anti-aircraft & Missile Systems	Mil		Cactus-Crotale	
681	Anti-aircraft & Missile Systems	Mil		GDF-007-35mm	
682	Anti-aircraft & Missile Systems	Mil		HAWK-Launcher	
683	Anti-aircraft & Missile Systems	Mil		HQ-2-Launcher	
684	Anti-aircraft & Missile Systems	Mil		HQ-61-Launcher	
685	Anti-aircraft & Missile Systems	Mil		Low-Blow	
686	Anti-aircraft & Missile Systems	Mil		MIM-104-Launcher	
687	Anti-aircraft & Missile Systems	Mil		MIM-104	
688	Anti-aircraft & Missile Systems	Mil		Protivnik-GE	
689	Anti-aircraft & Missile Systems	Mil		SA-12-Grill-Pan	

690	Anti-aircraft & Missile Systems	Mil		SA-12A-Gladiator	
691	Anti-aircraft & Missile Systems	Mil		SA-12B-Giant-TELAR	
692	Anti-aircraft & Missile Systems	Mil		SA-12B-Giant	
693	Anti-aircraft & Missile Systems	Mil		SA-19	
694	Anti-aircraft & Missile Systems	Mil		SA-22	
695	Anti-aircraft & Missile Systems	Mil		Tor-M2	
696	Anti-aircraft & Missile Systems	Mil		ZPU-4	
697	Armoured & Fighting Vehicle	Mil		Alpha	
698	Armoured & Fighting Vehicle	Mil		AMX-10RC	
699	Armoured & Fighting Vehicle	Mil		AT-105	
700	Armoured & Fighting Vehicle	Mil		BMD-2	
701	Armoured & Fighting Vehicle	Mil		BMD-3	
702	Armoured & Fighting Vehicle	Mil		BMP-2	
703	Armoured & Fighting Vehicle	Mil		Boxer	
704	Armoured & Fighting Vehicle	Mil		BRDM-1	
705	Armoured & Fighting Vehicle	Mil		Bull	
706	Armoured & Fighting Vehicle	Mil		Caiman	
707	Armoured & Fighting Vehicle	Mil		CM-32	
708	Armoured & Fighting Vehicle	Mil		EBRC	
709	Armoured & Fighting Vehicle	Mil		ERC-90	
710	Armoured & Fighting Vehicle	Mil		FCS-MV-T	
711	Armoured & Fighting Vehicle	Mil		FCS-RMV	
712	Armoured & Fighting Vehicle	Mil		FCS-RSV	
713	Armoured & Fighting Vehicle	Mil		FNSS-Pars	
714	Armoured & Fighting Vehicle	Mil		FV-101	
715	Armoured & Fighting Vehicle	Mil		FV-103	
716	Armoured & Fighting Vehicle	Mil		FV-105	

717	Armoured & Fighting Vehicle	Mil		FV-106	
718	Armoured & Fighting Vehicle	Mil		FV-107	
719	Armoured & Fighting Vehicle	Mil		Golan	
720	Armoured & Fighting Vehicle	Mil		GPV-Captain	
721	Armoured & Fighting Vehicle	Mil		GPV-Colonel	
722	Armoured & Fighting Vehicle	Mil		GPV-Commander	
723	Armoured & Fighting Vehicle	Mil		GPV-General	
724	Armoured & Fighting Vehicle	Mil		GPV-Sentry	
725	Armoured & Fighting Vehicle	Mil		Luchs	
726	Armoured & Fighting Vehicle	Mil		M-ATV-Soft-Top	
727	Armoured & Fighting Vehicle	Mil		M-ATV	
728	Armoured & Fighting Vehicle	Mil		M1117	
729	Armoured & Fighting Vehicle	Mil		M1127	
730	Armoured & Fighting Vehicle	Mil		M1130	
731	Armoured & Fighting Vehicle	Mil		M1133	
732	Armoured & Fighting Vehicle	Mil		M1134	
733	Armoured & Fighting Vehicle	Mil		M125A1	
734	Armoured & Fighting Vehicle	Mil		M3-BRADLEY	
735	Armoured & Fighting Vehicle	Mil		M901A3	
736	Armoured & Fighting Vehicle	Mil		M93A1	
737	Armoured & Fighting Vehicle	Mil		Marder-1A3	
738	Armoured & Fighting Vehicle	Mil		Mastiff-Slat-Armor	
739	Armoured & Fighting Vehicle	Mil		Mastiff	
740	Armoured & Fighting Vehicle	Mil		MaxxPro	
741	Armoured & Fighting Vehicle	Mil		MT-LB	
742	Armoured & Fighting Vehicle	Mil		MT-LBU	
743	Armoured & Fighting Vehicle	Mil		OT-62	



744	Armoured & Fighting Vehicle	Mil		OT-64A	
745	Armoured & Fighting Vehicle	Mil		Packbot-Explorer	
746	Armoured & Fighting Vehicle	Mil		Pandur-II	
747	Armoured & Fighting Vehicle	Mil		Patria	
748	Armoured & Fighting Vehicle	Mil		Pizarro-105mm	
749	Armoured & Fighting Vehicle	Mil		Pizarro	
750	Armoured & Fighting Vehicle	Mil		Puma-IFV	
751	Armoured & Fighting Vehicle	Mil		RG-31	
752	Armoured & Fighting Vehicle	Mil		RG-33L	
753	Armoured & Fighting Vehicle	Mil		Rooikat	
754	Armoured & Fighting Vehicle	Mil		Stryker-MRV	
755	Armoured & Fighting Vehicle	Mil		SUPERAV	
756	Armoured & Fighting Vehicle	Mil		Terrex-AV-81	
757	Armoured & Fighting Vehicle	Mil		VAB-APC	
758	Armoured & Fighting Vehicle	Mil		VBC-90	
756	Armoured & Fighting Vehicle	Mil		VBCI	
760	Armoured & Fighting Vehicle	Mil		VBL	
761	Armoured & Fighting Vehicle	Mil		VBM-Freccia	
762	Armoured & Fighting Vehicle	Mil		Wiesel-2	
763	Armoured & Fighting Vehicle	Mil		WZ551-105mm	
764	Armoured & Fighting Vehicle	Mil		WZ551-25mm	
765	Armoured & Fighting Vehicle	Mil		ZBD-03	
766	Armoured & Fighting Vehicle	Mil		ZBD-05	
767	Armoured & Fighting Vehicle	Mil		ZBD-09	
768	Armoured & Fighting Vehicle	Mil		ZBD-97	
769	Armoured & Fighting Vehicle	Mil		ZBD2000-105mm	
770	Armoured & Fighting Vehicle	Mil		ZBD2000-30mm	

771	Armoured & Fighting Vehicle	Mil		ATF-Dingo	
772	Armoured & Fighting Vehicle	Mil		Eagle-II	
773	Armoured & Fighting Vehicle	Mil		M104	
774	Armoured & Fighting Vehicle	Mil		M1977-CBT	
775	Armoured & Fighting Vehicle	Mil		M88A2	
776	Armoured & Fighting Vehicle	Mil		M9-ACE	
777	Armoured & Fighting Vehicle	Mil		MT-55	
778	Armoured & Fighting Vehicle	Mil		Snezka	
779	Armoured & Fighting Vehicle	Mil		TPz-1	
780	Artillery and Utility Vehicles	Mil		M989	
781	Civilian Vehicles	Civ		Afghan-Car	
782	Civilian Vehicles	Civ		Bicycle	
783	Civilian Vehicles	Civ		Chevrolet-Police	
784	Civilian Vehicles	Civ		Chevrolet-Silverado.M249	
785	Civilian Vehicles	Civ		Damaged-Car	
786	Civilian Vehicles	Civ		F-150 Ford	
787	Civilian Vehicles	Civ		F-350Ford	
788	Civilian Vehicles	Civ		GMC-Sierra	
789	Civilian Vehicles	Civ		Mercedes-0302	
790	Civilian Vehicles	Civ		Military-Bus	
791	Civilian Vehicles	Civ		Nissan.AT-14	
792	Civilian Vehicles	Civ		Nissan.DShK	
793	Civilian Vehicles	Civ		Nissan.KPV	
794	Civilian Vehicles	Civ		Nissan.ZPU-4	
795	Civilian Vehicles	Civ		PEGASO.ZPU-4	
796	Civilian Vehicles	Civ		PEGASO.ZU-23	
797	Civilian Vehicles	Civ		TOYOTA-LAND-CRUISER	
798	Civilian Vehicles	Civ		Toyota-LandCruiser-70-Top.ZU-23	
799	Civilian Vehicles	Civ		Toyota-LandCruiser-70.DSHK	
800	Civilian Vehicles	Civ		Toyota-LandCruiser-70.M2	
801	Civilian Vehicles	Civ		Toyota-LandCruiser-70.M40	

802	Civilian Vehicles	Civ		Toyota-LandCruiser-70.ZPU-2	
803	Civilian Vehicles	Civ		Toyota-LandCruiser-70.ZU-23	
804	Civilian Vehicles	Civ		Toyota-LandCruiser	
805	Civilian Vehicles	Civ		TOYOTA-Tacoma.M2	
806	Civilian Vehicles	Civ		Toyota-Tacoma.RPK	
807	Civilian Vehicles	Civ		Truck.IQ	
808	Civilian Vehicles	Civ		UAZ-469	
809	Civilian Vehicles	Civ		UAZ.B-10	
810	Civilian Vehicles	Civ		UAZ.TYPE-63	
811	Civilian Vehicles	Civ		UAZ.UB-16-57	
812	Artillery and Utility Vehicles	Mil		Tanker-7500Gal	
813	Artillery and Utility Vehicles	Mil		5E97	
814	Artillery and Utility Vehicles	Mil		Generator-Trailer	
815	Artillery and Utility Vehicles	Mil		K-21M	
816	Artillery and Utility Vehicles	Mil		M1076-Trailer	
817	Artillery and Utility Vehicles	Mil		M172-Lowbed	
818	Artillery and Utility Vehicles	Mil		M747	
819	Artillery and Utility Vehicles	Mil		M870-Lowbed	
820	Artillery and Utility Vehicles	Mil		M872-Container	
821	Artillery and Utility Vehicles	Mil		M872-Flatbed	
822	Artillery and Utility Vehicles	Mil		M872-Stakebed	
823	Artillery and Utility Vehicles	Mil		Generator-Trailer	
824	Artillery and Utility Vehicles	Mil		BV-S10	
825	Artillery and Utility Vehicles	Mil		Caterpillar-988B	
826	Artillery and Utility Vehicles	Mil		Caterpillar-D9	
827	Artillery and Utility Vehicles	Mil		7000-MV	
828	Artillery and Utility Vehicles	Mil		Bearcat	
829	Artillery and Utility Vehicles	Mil		Bushmaster	
830	Artillery and Utility Vehicles	Mil		Case-721B	

831	Artillery and Utility Vehicles	Mil		Caterpillar-972	
832	Artillery and Utility Vehicles	Mil		Cheetah	
833	Artillery and Utility Vehicles	Mil		Entwistle-Forklift	
834	Artillery and Utility Vehicles	Mil		GAZ-66	
835	Artillery and Utility Vehicles	Mil		IVMMD-F	
836	Artillery and Utility Vehicles	Mil		IVMMD-T	
837	Artillery and Utility Vehicles	Mil		Jackal	
838	Artillery and Utility Vehicles	Mil		KAMAZ-4310	
839	Artillery and Utility Vehicles	Mil		KAMAZ-6560	
840	Artillery and Utility Vehicles	Mil		KIA-Bongo	
841	Artillery and Utility Vehicles	Mil		KRAZ-255-Top	
842	Artillery and Utility Vehicles	Mil		KRAZ-255	
843	Artillery and Utility Vehicles	Mil		M1075-Concrete	
844	Artillery and Utility Vehicles	Mil		M1075	
845	Artillery and Utility Vehicles	Mil		M1087	
846	Artillery and Utility Vehicles	Mil		M1089	
847	Artillery and Utility Vehicles	Mil		M1090	
848	Artillery and Utility Vehicles	Mil		M35A2	
849	Artillery and Utility Vehicles	Mil		M911	
850	Artillery and Utility Vehicles	Mil		M915A1	
851	Artillery and Utility Vehicles	Mil		M916	
852	Artillery and Utility Vehicles	Mil		M920	
853	Artillery and Utility Vehicles	Mil		M931	
854	Artillery and Utility Vehicles	Mil		M984A1	
855	Artillery and Utility Vehicles	Mil		MAZ-543	
856	Artillery and Utility Vehicles	Mil		Meerkat	
857	Artillery and Utility Vehicles	Mil		Mercedes-Benz-L3000	

858	Artillery and Utility Vehicles	Mil		MTVR-MK23	
859	Artillery and Utility Vehicles	Mil		PVP-A4	
860	Artillery and Utility Vehicles	Mil		SandCat	
861	Artillery and Utility Vehicles	Mil		T815	
862	Artillery and Utility Vehicles	Mil		Ural-4320-Command	
863	Artillery and Utility Vehicles	Mil		Ural-4320-Refueler	
864	Artillery and Utility Vehicles	Mil		ZIL-131H	
865	Artillery and Utility Vehicles	Mil		ZIL-151	
866	Artillery and Utility Vehicles	Mil		K-2	
867	Missiles and Weapons	Mil		Mortar-2B14	
868	Missiles and Weapons	Mil		Mortar-2S12	
869	Unmanned Vehicles	Mil		BAE-Black-Knight	
870	Other	Mil		Bridges IRB	
871	Other	Mil		Bridges MLC-60	
872	Other	Mil		Bridges MT-55-BRIDGE	
873	Other	Mil		SuperWedge-Launcher	
874	Artillery and Utility Vehicles	Mil		2S19	
875	Artillery and Utility Vehicles	Mil		2S23	
876	Artillery and Utility Vehicles	Mil		2S3	
877	Artillery and Utility Vehicles	Mil		2S7	
878	Artillery and Utility Vehicles	Mil		2S9	
879	Artillery and Utility Vehicles	Mil		Archer-FH-77BD	
880	Artillery and Utility Vehicles	Mil		AS-90	
881	Artillery and Utility Vehicles	Mil		Atmos-2000	
882	Artillery and Utility Vehicles	Mil		B-10	
883	Artillery and Utility Vehicles	Mil		BM-30	
884	Artillery and Utility Vehicles	Mil		CAESAR	
885	Artillery and Utility Vehicles	Mil		DShK-Towed	

886	Artillery and Utility Vehicles	Mil		Frog-7B	
887	Artillery and Utility Vehicles	Mil		G6-Howitzer	
888	Artillery and Utility Vehicles	Mil		M1985	
889	Artillery and Utility Vehicles	Mil		ShKH-77	
890	Artillery and Utility Vehicles	Mil		Type-63	
891	Artillery and Utility Vehicles	Mil		iRobot-Packbot-Explorer	
892	Artillery and Utility Vehicles	Mil		Robot-TALON-Grenade	
893	Artillery and Utility Vehicles	Mil		Robot-TALON-SWORDS	
894	Artillery and Utility Vehicles	Mil		Robot-TALON	
895	Artillery and Utility Vehicles	Mil		F-350	
896	Artillery and Utility Vehicles	Mil		GAZ-2975	
897	Artillery and Utility Vehicles	Mil		LWB-Land-Rover	
898	Artillery and Utility Vehicles	Mil		MULE-UGCV	
899	Artillery and Utility Vehicles	Mil		Nissan-Frontier	
900	Artillery and Utility Vehicles	Mil		PV3S	
901	Artillery and Utility Vehicles	Mil		Trailer-Generator-1	
902	Artillery and Utility Vehicles	Mil		Truck-usairways	
903	Artillery and Utility Vehicles	Mil		United-Truck-airport	
904	Artillery and Utility Vehicles	Mil		XM1217	
905	Artillery and Utility Vehicles	Mil		XM1218	
906	Artillery and Utility Vehicles	Mil		XM1219	
907	Artillery and Utility Vehicles	Mil		Yamaha-RS-100	
908	Artillery and Utility Vehicles	Mil		ZFB05	
909	Battle Tank	Mil		AMX-13	
910	Battle Tank	Mil		AMX-40	
911	Battle Tank	Mil		CV-9035	
912	Battle Tank	Mil		FCS-C2V	
913	Battle Tank	Mil		Jaguar-1A3	

914	Battle Tank	Mil		Leclerc	
915	Battle Tank	Mil		Leopard-C2A1-MEXAS	
916	Battle Tank	Mil		M19A1	
917	Battle Tank	Mil		M1A1-Mine-Plows	
918	Battle Tank	Mil		M1A2-MCRS	
919	Battle Tank	Mil		M60A3	
920	Battle Tank	Mil		Merkava-Mark-III	
921	Battle Tank	Mil		Merkava-Mark-IV	
922	Battle Tank	Mil		SK-105A1	
923	Battle Tank	Mil		SK-105A2	
924	Battle Tank	Mil		T-55-Enigma	
925	Battle Tank	Mil		T-90S	
926	Battle Tank	Mil		Type-59	
927	Battle Tank	Mil		Type-69	
928	Battle Tank	Mil		Type-98	
929	Battle Tank	Mil		Type-99	
930	Artillery & Utility Vehicles	Mil		G5-Howitzer	
931	Artillery & Utility Vehicles	Mil		KPV	
932	Artillery & Utility Vehicles	Mil		M119A1	
933	Artillery & Utility Vehicles	Mil		M1942	
934	Artillery & Utility Vehicles	Mil		Type-55	
935	Artillery & Utility Vehicles	Mil		ZU-23-2	
936	Civilian Vehicles	Civ		Train-Car	
937	Civilian Vehicles	Civ		Train-Container	
938	Civilian Vehicles	Civ		Train-Passengers	
939	Civilian Vehicles	Civ		Train-Platform	
940	Civilian Vehicles	Civ		Train-Tanker	
941	Civilian Vehicles	Civ		Luggage-Cart	
942	Civilian Vehicles	Civ		Generic Oil platform	
943	Civilian Vehicles	Civ		LHA-5	
944	Civilian Vehicles	Civ		LHD-1	
945	Civilian Vehicles	Civ		LHD-7	
946	Surface Naval Ship	Mil		CV-41	
947	Surface Naval Ship	Mil		CV-59	

948	Surface Naval Ship	Mil		CV-63	
949	Surface Naval Ship	Mil		CV-67	
950	Surface Naval Ship	Mil		CV-9	
951	Civilian Watercraft	Civ		Zodiac-Boat	
952	Surface Naval Ship	Mil		Koni-Class	
953	Surface Naval Ship	Mil		Kirov-Class	
954	Surface Naval Ship	Mil		DDG-1000-Zumwalt	
955	Surface Naval Ship	Mil		Type-052C	
956	Surface Naval Ship	Mil		Tarantul-III	
957	Surface Naval Ship	Mil		Giuseppe-Garibaldi	
958	Surface Naval Ship	Mil		Boghammar	
959	Surface Naval Ship	Mil		OSA-II-Class	
960	Surface Naval Ship	Mil		Patrol-Boat	
961	Civilian Watercraft	Civ		Bladerunner-51	
962	Civilian Watercraft	Civ		Tugboat	
963	Surface Naval Ship	Mil		LST-1179	
964	Missiles and Weapons	Mil		SA-10C	
965	Missiles and Weapons	Mil		SA-20a	
966	Missiles and Weapons	Mil		AA-2 Atoll	
967	Missiles and Weapons	Mil		AA-6 Acrid	
968	Missiles and Weapons	Mil		AA-8 Aphid	
969	Missiles and Weapons	Mil		AA-9 Amos	
970	Missiles and Weapons	Mil		AAM-N-10	
971	Missiles and Weapons	Mil		AGM-114K	
972	Missiles and Weapons	Mil		AN-AAQ-28	
973	Missiles and Weapons	Mil		IRIS-T	
974	Missiles and Weapons	Mil		MIM-23B	
975	Missiles and Weapons	Mil		PL-2	
976	Missiles and Weapons	Mil		PL-5B	
977	Missiles and Weapons	Mil		PL-7	
978	Missiles and Weapons	Mil		R530	



979	Missiles and Weapons	Mil		SA-N-4-Gecko	
980	Missiles and Weapons	Mil		AGM-65G	
981	Missiles and Weapons	Mil		AT-6	
982	Missiles and Weapons	Mil		FGM-148-Javelin	
983	Missiles and Weapons	Mil		HOT-Missile	
984	Missiles and Weapons	Mil		FAB-250	
985	Missiles and Weapons	Mil		RG-4	
986	Missiles and Weapons	Mil		120mm-HE	
987	Missiles and Weapons	Mil		Frog-7B-Missile	
988	Missiles and Weapons	Mil		LAU-68	
989	Missiles and Weapons	Mil		LR-68-22L	
990	Missiles and Weapons	Mil		M-13	
991	Missiles and Weapons	Mil		MK-84-IED	
992	Missiles and Weapons	Mil		Rocket-Pod	
993	Missiles and Weapons	Mil		Sniper-Pod	
994	Missiles and Weapons	Mil		Type-63-IED	
995	Missiles and Weapons	Mil		UB-32	
996	Missiles and Weapons	Mil		GBU-12	
997	Missiles and Weapons	Mil		MK-81	
998	Missiles and Weapons	Mil		MK-82	
999	Missiles and Weapons	Mil		MK-83	
1000	Missiles and Weapons	Mil		Storm-Shadow	
1001	Missiles and Weapons	Mil		HOT3	

**Table 6 – Task Authorization Work**

Item #	Service / Labour Category	Hourly Rate
	<i>Example: 3D Modelling Work, 3D Texturing Work</i>	
1002		
1003		
1004		