



**RETURN BIDS TO:**

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**11 Laurier St./ 11 rue, Laurier  
Place du Portage, Phase III  
Core 0B2 / Noyau 0B2  
Gatineau, Québec K1A 0S5  
Bid Fax: (819) 997-9776**

**SOLICITATION AMENDMENT  
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

**Comments - Commentaires**

THIS DOCUMENT CONTAINS A SECURITY  
REQUIREMENT

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Scientific, Medical and Photographic Division /  
Division de l'équipement scientifique, des produits  
photographiques et pharmaceutiques  
11 Laurier St./ 11 rue, Laurier  
6A2, Place du Portage  
Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> Digital Radiography Retrofit	
<b>Solicitation No. - N° de l'invitation</b> W6369-19A023/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> W6369-19A023	<b>Date</b> 2018-11-19
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$PV-915-75655	
<b>File No. - N° de dossier</b> pv915.W6369-19A023	<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 2019-01-04</b>	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> MacCuaig, Shannon	<b>Buyer Id - Id de l'acheteur</b> pv915
<b>Telephone No. - N° de téléphone</b> (613) 697-0956 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<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/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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Amendment 002 is raised to:

- 1) answer questions from industry and
  - 2) replace the Statement of Requirement.
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## 1) Question from industry:

### Question 7:

Request for clarification:

In Annex B, it states that pricing should include “one year of maintenance and support services, as described in Annex A”. In Annex A, Article 6.1 b states:

#### 6.1 b) Timelines:

Hardware support will commence one (1) year after installation whereas the software support portion will commence immediately after installation for duration of contract. Hardware support DOES NOT include insurance or protection for the Digital Image Detector.

Please confirm that our understanding is correct whereas the request is for a one year warranty on the equipment and a one year all-inclusive service maintenance and support agreement.

In summary, one year warranty and one year service coverage following installation of the equipment, for a total of 2 years coverage, is required.

### Answer 7:

No. One year warranty/support on hardware from the date the installation is completed (not all installations will commence at the same time).

Software support will commence from date of installation and continue until end of contract. This will ensure if there are any software upgrades, patches, or fixes during the life of the contract our facilities will receive the applicable support.

## 2) New Statement of Requirement

Per Amendment 001,

DELETE Annex A – Statement of Requirement in its entirety.

REPLACE WITH:

### **ANNEX A**

#### **Part 1 - STATEMENT OF REQUIREMENT**

## **1. OBJECTIVE**

- 1.1 The Department of National Defence, Canadian Armed Forces (CAF), through the Canadian Forces Health Services Group (CF H Svcs Gp) has a requirement for a tethered, with wireless option, Digital Radiography Retrofit (DR Retrofit) of its fifteen (15) diagnostic imaging departments to replace obsolete Computed Radiography equipment.

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- 1.2 The CF H Svcs GP will require an initial upgrade of four (4) diagnostic imaging departments with an option to upgrade an additional eleven (11) diagnostic imaging departments over the next three (3) years. There is also a requirement for both DR Retrofit Operator Training for Diagnostic Imaging Technologist as well as Maintenance and Support for the DR Retrofit's hardware and software.
- 1.3 The Contractor will supply all hardware and software required to perform the Digital Radiography Retrofit upgrade as well as the installation, configuration, and testing of the upgrade to confirm functionality.
- 1.4 The Contractor will be responsible for interfacing the Digital Radiography Retrofit upgrade to the CAF's current GE Proteus general radiography system within its diagnostic imaging departments without invalidating the Health Canada Medical Device Licence of the GE Proteus.
- All changes to the GE Proteus must first be approved by the Technical Authority, prior to installation, so as to mitigate implications on the National GE Proteus maintenance and support contract.
- 1.5 The Contractor, working in conjunction with the CAF's PACS Administrator, will be responsible for the installation and configuration of the software interface to the CAF's Picture Archiving and Communications System (PACS).

## **2. BACKGROUND**

- 2.1 The CF H Svcs GP, as a component of the CAF, core mandate is the diagnosis and treatment of medical conditions within military personnel. As part of the diagnosis and treatment regimen, the Canadian Forces Health Services Group requires the retrofit and upgrade of its current Computed Radiography equipment to Digital Radiography equipment utilizing a Digital Image Detector with accompanying hardware and software. Currently, the CAF utilizes the GE Proteus general radiography system within its diagnostic imaging departments with integral maintenance and support for this system.
- 2.2 Training sessions and maintenance and support is also required in order to maintain the operational capability of the fifteen (15) diagnostic imaging departments across the CAF, thus enabling Canadian Forces Health Services Group to deliver its core mandate.

## **3. CERTIFICATIONS AND LICENSES**

Each DR Retrofit hardware must meet and provide the following certifications:

- 3.1 Canadian Standards Association (CSA) certification, or equivalent, [www.csagroup.org/global/en/about-csa-group/certification-marks-labels](http://www.csagroup.org/global/en/about-csa-group/certification-marks-labels)). Proof of equivalency must be recognized by SCC (Standard Council of Canada) ([www.scc.ca](http://www.scc.ca)).
- 3.2 The Digital Radiography system, which includes all hardware and software components, must have a valid, active, medical device license issued by Health Canada. Proof of licensure must be included with the bid submission. The Canadian Armed Forces reserves the right, at its discretion, to verify the validity of the device license through Health Canada's Medical Devices Active License Listing (MDALL) (<https://health-products.canada.ca/mdall-liimh/index-eng.jsp>).

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3.3 Compliance with Health Canada's Safety Code 35 – X-Ray Equipment in Medical Diagnosis: Recommended Safety Procedures for Installation and Use.

#### 4. SPECIFICATIONS

The Contractor must provide the following services and specifications:

##### 4.1 General Characteristics:

- 4.1.1 Communication between the Digital Imaging Detector, applicable software and PACS must be minimum DICOM 3.0 compatible.
- 4.1.2 Network connectivity to PACS must use Ethernet 10/100/1000 Base T, RJ45 Standard Communications protocols.
- 4.1.3 Network interface router between the Digital Image Detectors and the PACS must utilize both hard wired connections as well as be wireless using IEEE 802.11 wireless protocols.  
During installation, the wireless portion of the router will be disabled.
- 4.1.4 The DR Retrofit upgrade must operate on 120 volts, 60 Hertz, AC power and connect to a standard 15 Amp receptacle.
- 4.1.5 All connections (cabling) running between the Digital Image Detector, router, computer and PACS interface must be adequately secured so as to prevent accidental damage to the individual components. The Contractor is encouraged to make use of existing structures to hide cabling as much as possible.

##### 4.2 Technical Specifications:

The Contractor must provide the following specifications for the Digital Image Detector (DID):

- 4.2.1 One (1) interchangeable DID at each site for use within both the table and upright chest bucky must connect to the GE Proteus general radiography system through a tether cable(s) but also have the ability to connect wirelessly in the event the CAF chooses to go that route at a later date.
- 4.2.2 Scintillator must be Cesium Iodide to reduce the radiation dose delivered to the patient.
- 4.2.3 Imaging area must be 35 centimeters (cm) by 43cm with overall maximum external dimensions of 40cm by 48cm by 2cm thickness.
- 4.2.4 Maximum weight, including battery, must not exceed 3 kilograms.
- 4.2.5 Pixel pitch (size) must be 120 microns or better.
- 4.2.6 Must have a minimum pixel count of 2800 x 3408.
- 4.2.7 Image preview within two (2) seconds of exposure with full image viewing within eight (8) seconds of exposure.
- 4.2.8 Grayscale output 12 bit, standard, 16 bit user-selectable.
- 4.2.9 Connectivity: DICOM 3.0 compatible and IEEE 802.11 wireless protocols.
- 4.2.10 Must have a minimum 10:1 grid ratio and be compatible with the Digital Image Detectors.

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4.2.11 Battery: when fully charged, must be capable of taking a minimum of 120 images and recharging, from empty to full charge, in less than three (3) hours.

## 5. ACCESSORIES

The following accessories must be included with each Digital Image Detector:

- 5.1 One (1) battery charger, 100-240Vac, 50-60Hz; and
- 5.2 Two (2) batteries.

## 6. MAINTENANCE AND SUPPORT

### 6.1 DR Retrofit Maintenance and Support – Extent and Level:

The Contractor must provide, at a minimum, the following maintenance and support services for each clinic upgraded as part of the DR Retrofit:

a) **Maintenance and Support:**

The Contractor will provide service maintenance and support to both the hardware and software components of the DR Retrofit for each clinic upgraded.

b) **Timelines:**

Hardware support will commence one (1) year after installation whereas the software support portion will commence immediately after installation for the duration of the contract. Hardware support DOES NOT include insurance or protection for the Digital Image Detector.

c) **Locations:**

To take place on Canadian Forces Bases, at DND's/CAF's facilities, specified in Appendix 1 to Annex A.

d) **Language:**

Must be performed in English at all locations with the exception of those within the Province of Quebec, those must be offered in French.

e) **All Inclusive:**

All Contractor related cost associated with the performance of the Maintenance and Support (inclusive of replacement parts, cabling, software updates/upgrades/security patches, and travel and living expenses for the Contractors personnel) must be included in the DR Retrofit upgrade price.

f) **License:**

The Contractor grants a perpetual, non-revocable license to use, reproduce, and translate all reference manuals, materials, and documentation.

g) **Documentation:**

The Contractor must provide the Technical Authority with a copy of all Contractor-generated work orders for any work completed as well as any documentation pertaining to software updates/upgrades/security patches installed.

## 7. TRAINING SESSIONS

### 7.1 DR Retrofit Upgrade Operator Training Sessions

The Contractor must provide, at a minimum, a one (1) day onsite hands-on operator training course for Canadian Forces Health Services Diagnostic Imaging Technologist personnel at the

location of installation. As a minimum, the training course must provide Canadian Forces Health Services personnel with the knowledge necessary to navigate the various menus, systems and sub-systems, including basic troubleshooting of the system. At the completion of the training, Canadian Forces Health Services personnel must be comfortable operating the system.

## 7.2 **DR Retrofit Upgrade Operator Training - Included with each DR Retrofit**

The Contractor must provide one (1) operator training session for each clinic upgraded, as follows:

- a) **Sessions:**  
Estimated at a minimum of two (2) to a maximum of four (4) operators per session.
- b) **Timelines:**  
The training must be performed within two (2) calendar days of installation.
- c) **Locations:**  
The training is to take place at Canadian Forces Bases, at DND/CAF's facility, specified in Appendix 1 of Annex A.
- d) **Language:**  
Must be performed in English at all locations with the exception of those within the Province of Quebec, those sessions must be offered in French.
- e) **All Inclusive:**  
All Contractor related costs associated with the performance of operator training (inclusive of the training manuals, reference materials, documentation, tuition, and Contractor's Trainer travel and living expenses) must be included in the DR Retrofit Upgrade price.
- f) **License:**  
The Contractor grants a perpetual, non-revocable license to use, reproduce, and translate the training and reference manuals, materials, and documentation.
- g) **Access:**  
Upon successful completion of the course, each CF H Svcs Gp operator will be provided the login and password information to access all operator level software programs installed as part of the DR retrofit.
- h) **Telephone Access:**  
Upon successful completion of the course, each CF H Svcs Gp operator will be provided with the telephone number for 24 hour technical support and unrestricted access to call the 24 hour technical support line free of charge for the duration of the maintenance and support contract.

## 8. **REFERENCE MATERIAL AND MANUALS**

- 8.1 The training manuals, technical service manuals with detailed schematics and part list, reference materials and documentation are included. The Contractor must provide one (1) hard copy of the operator/user manual per student at the start of each training session. One (1) electronic copy is required per training session.
- 8.2 The Contractor grants a perpetual, non-revocable license to use, reproduce, and translate the training, technical and reference manuals, materials and documents.

The requirement must work and operate at all times in accordance with the following mandatory technical requirements and the mandatory evaluation criteria as specified below at Part 2.1 - Mandatory Technical Evaluation Criteria.

**Part 2 - MANDATORY TECHNICAL EVALUATION CRITERIA**

**The following requirements are the mandatory technical evaluation criteria which will be evaluated during the Bid Evaluation. In addition, the Contractor will be required to meet all of the mandatory technical requirements for the duration of the Contract**

**Bidders are requested to cross reference the mandatory technical criteria in a concise format by using page, paragraph(s) & sub-paragraphs as applicable to their supporting technical documentation.**

The Bidder must provide documentation, in the form of an operator's manual, technical/sales brochures and certifications, which demonstrate their proposed Clinic DR Retrofit meets all the following Mandatory Requirement.

#	REQUIREMENT	MET / NOT MET	Location in Manual or Technical Specifications (title, page #, etc)
<b>M1 – The Bidder must demonstrate that their proposed Clinic DR Retrofit has the following specifications:</b>			
M1.1	The Bidder must demonstrate the proposed Digital Image Detector is capable of being used within both the table and upright chest bucky, connect to the GE Proteus general radiography system through a tether cable(s), and also have the ability to connect wirelessly.		
M1.2	The Bidder must demonstrate that the Scintillator be Cesium Iodide to reduce the radiation dose delivered to		
M1.3	The Bidder must demonstrate that the maximum weight, including battery not exceed 3 kilograms.		
M1.4	The Bidder must demonstrate that the Pixel pitch (size) is 120 microns or better.		
M1.5	The Bidder must demonstrate that the minimum pixel count is 2800 x 3408.		
M1.6	The Bidder must demonstrate that the Image preview be within two (2) seconds of exposure with full image viewing within eight (8) seconds of exposure.		
M1.7	The Bidder must demonstrate that the DR Retrofit can produce Grayscale output 12 bit, standard, 16 bit user-selectable.		

#	REQUIREMENT	MET / NOT MET	Location in Manual or Technical Specifications (title, page #, etc)
M1.8	The Bidder must demonstrate the connectivity is DICOM 3.0 compatible and IEEE 802.11 wireless protocols.		
M1.9	The Bidder must demonstrate a Minimum 10:1 grid ratio and be compatible with the Digital Image Detectors.		
M1.10	The Bidder must demonstrate that the Battery when fully charged, is capable of taking a minimum of 120 images, and recharging, from empty to full charge, in less than three (3) hours.		
M1.11	The Bidder must demonstrate they have past experience in DR Retrofit upgrades with the proposed Digital Image Detector by providing references (name, telephone number and email address) for a minimum of 40 successful upgrades. The CF H Svcs Gp reserves the right to contact each reference.		
<b>M2 - The Bidder must demonstrate that their proposed DR Retrofit hardware have the following Certification and Compliance:</b>			
M2.1	Canadian Standards Association (CSA) certification ( <a href="http://www.csagroup.org/global/en/about-csa-group/certification-marks-labels">www.csagroup.org/global/en/about-csa-group/certification-marks-labels</a> ); or an equivalent proof of certification or proof of equivalency must be recognized by SCC (Standard Council of Canada) ( <a href="http://www.scc.ca">www.scc.ca</a> ).		
M2.2	The Digital Radiography system, which includes all hardware and software components, must have a valid, active, medical device license issued by Health Canada. Proof of licensure must be included with the bid submission. The Canadian Armed Forces reserves the right, at its discretion, to verify the validity of the device license through Health Canada's Medical Devices Active License Listing (MDALL) ( <a href="https://health-products.canada.ca/mdall-limh/index-eng.jsp">https://health-products.canada.ca/mdall-limh/index-eng.jsp</a> ).		

**APPENDIX 1 TO ANNEX A**

**DELIVERY SCHEDULE**

**1. Firm Requirement:**

In accordance with Annex A.

- 1.1 All Contractor related costs associated with the performance of the delivery, installation, configuration, maintenance and operator training (inclusive of the training manuals, reference materials, documentation, tuition, and Contractor's Trainer travel and living expenses) must be included in the DR Retrofit Upgrade price.

Item #	Item Description	Qty	Location	Address	Performance of Service
1	DR Retrofit, Installation, Configuration, Operator Training, and Maintenance	4	Canadian Forces Base (CFB) Halifax Halifax, NS	CF H Svcs C (A) Canadian Forces Base Halifax Building S-80 2685 Sextant Lane Halifax, NS B3K 5X5	English
			CFB Valcartier Courcellette, QC	Health Care Centre Valcartier Canadian Forces Base Valcartier Building 109 Courcellette, QC G0A 4Z0	French
			CFB Petawawa, Petawawa, ON	2 Field Ambulance Medical Clinic Canadian Forces Base Petawawa Building N 109 Petawawa, ON K8H 2X3	English
			CFB Edmonton Edmonton, AB	1 Field Ambulance Edmonton Clinic Building 162, Churchill Ave Edmonton, AB T5J 4J5	English
<b>TOTAL Firm Requirement:</b>		<b>4</b>			

## 2. Optional Requirement:

In accordance with Annex A.

- 2.1 All Contractor related costs associated with the performance of the delivery, installation, configuration, maintenance and operator training (inclusive of the training manuals, reference materials, documentation, and Contractor's Trainer travel and living expenses) must be included in the DR Retrofit Upgrade price.

Item #	Item Description	Max Qty	Delivery of Goods	Location of Training	Performance of Service
2	DR Retrofit, Installation, Configuration, Operator Training, and Maintenance	11	CFB Greenwood Greenwood, NS	Canadian Forces Base Greenwood Building 13, Administration Way Greenwood, NS B0P 1N0	English
			CFB Gagetown Oromocto, NB	Canadian Forces Base – Area Support Unit Gagetown Building A-47, Champlain Avenue Oromocto, NB E2V 4J5	English
			CFB Valcartier Courcellette, QC	Health Care Centre Valcartier Canadian Forces Base Valcartier Building 109 Courcellette, QC G0A 4Z0	French
			CFB Bagotville Bagotville, QC	Canadian Forces Base Bagotville Building 66 Bagotville, QC G0V 1A0	French
			CFB St-Jean St-Jean, QC	41 CF H Svcs C Building 150 PO Box 100, Succ. Bureau Chef Richelien, QC J0J 1R0	French
			CFB Borden Angus, ON	31 CF H Svcs C Building O-166, 30 Ortona Road Borden, ON L0M 1C0	English
			CFB Kingston Kingston, ON	Canadian Forces Base Kingston 1 Entretien St, Building 62 Kingston, ON K7K 7B4	English

Solicitation No. - N° de l'invitation  
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Amd. No. - N° de la modif.  
002  
File No. - N° du dossier  
pv915.W6369-19A023

Buyer ID - Id de l'acheteur  
pv915  
CCC No./N° CCC - FMS No./N° VME

			CFB Trenton Trenton, ON	24 CF H Svcs C 8 Wing Trenton 50 Yukon Street Astra, ON K0K 3W0	English
			CFB Winnipeg Winnipeg, MB	23 CF H Svcs C Building 62, Whytefold Road Winnipeg, Manitoba R3J 3Y5	English
			CFB Shilo Shilo, MB	11 CF H Svcs C Building L-158, Engineer Rd Shilo, Manitoba R0K 2A0	English
			CFB Esquimalt Victoria, BC	CF H Svcs C (P) 1200 Colville Road Victoria, BC V9A 7N2	English
<b>TOTAL Optional Requirement:</b>	<b>11</b>				

**ALL OTHER CONDITIONS IN THE RFP REMAIN UNCHANGED**