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**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

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

Issuing Office - Bureau de distribution  
Electrical & Electronics Products Division  
11 Laurier St./11, rue Laurier  
7B3, Place du Portage, Phase III  
Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> MCCP EIFW	
<b>Solicitation No. - N° de l'invitation</b> 21120-159558/A	<b>Amendment No. - N° modif.</b> 004
<b>Client Reference No. - N° de référence du client</b> 21120-159558	<b>Date</b> 2015-06-15
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HN-461-67099	
<b>File No. - N° de dossier</b> hn461.21120-159558	<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 2015-07-16</b>	
<b>Time Zone</b> Fuseau horaire 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> Hallman, Patti	<b>Buyer Id - Id de l'acheteur</b> hn461
<b>Telephone No. - N° de téléphone</b> (819) 956-7390 ( )	<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>
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<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> (type or print) <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 004 is issued to provide responses to additional questions received and to provide the Additional Design Requirements for the MCCP Console.*

## **1) At Attachment 001 Questions and Answers**

### **Insert:**

**Q19** Can we post/email the soft copies of drawings and the Power Point handed out at the site visit ?

**A19** Provided via email to all Bidders on May 28, 2015

**Q20** Can CSC provide the specification/model of the tiles for the floor ?

**A20** already answered above.

**Q21** Can CSC perform a rack assessment at the site

**A21** Rack space for existing MCCP equipment will be made available with some minor equipment relocation changes in the CER closet. The Contractor must make provision in their Bid for this work.

**Q22** Can CSC verify if there is mold inside the ceiling of the MCCP as there was significant water damage to the tiles and the staff mentioned there was a strong odour coming from the ceiling ?

**A22** The Contractor will not be required to replace any ceiling tiles in the MCCP.

**Q23** Can an extension of 10 business days be granted?

**A23** An extension has already been granted in Amendment 3.

**Q24** During the Site visit there was some concern raised that touch screen manufacturers no longer support the required protocols in order to mitigate supplying the wrong part could the crown please inquire with the PIDS and FAAS vendor the recommended 22 inch touch screen model # required to operate the PIDS and FAAS controllers?

**A24** The existing PIDS and FAAS touch screens are manufactured by Elographics. Elographics confirmed that there are several models available that support the required serial protocol.

Preliminary field testing conducted using an available Elographics E432721 resistive touch screen has yielded positive results. The Contractor must communicate with Elographics to ascertain the

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004

File No. - N° du dossier

hn46121120-159558

Buyer ID - Id de l'acheteur

hn461

CCC No./N° CCC - FMS No/ N° VME

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availability of compatible capacitive touch technology. The Contractor must test the video clarity and touch functions prior to cutover and obtain CSC's permission to commence with any related cutover activities.

**2) At SUPPLIED UNDER SEPARATE COVER (ATTACHMENT 1)**

**Insert:** 2) Design Requirements for the MCCP Console

**Insert:** PDF Document titled "Design Requirements for the MCCP Console (EN).pdf" dated May 15, 2015.

**ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED**

**CORRECTIONAL SERVICE CANADA  
FACILITIES BRANCH  
ELECTRONIC SECURITY SYSTEMS**

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15 May 2015

**DESIGN REQUIREMENTS  
FOR THE  
MAIN CONTROL AND COMMUNICATIONS POST (MCCP) CONSOLE  
FOR USE IN FEDERAL CORRECTIONAL INSTITUTIONS**

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## 1 INTRODUCTION

### 1.1 Overview

- .1 This document defines the broad requirements of Correctional Service Canada (CSC) for a console that provides the supporting infrastructure for the User Interface Monitors, Controls, Telephones, Microphones and CCTV Monitors for systems that are managed by the M CCP Operator.
- .2 Institutions with a medium or higher security rating are equipped with M CCPs that are staffed 24/7.
- .3 The M CCP operator is responsible for monitoring the overall security of the facility with a primary focus on responding to incidents along the institution's perimeter.
- .4 The M CCP Operator is typically required to manage and/or interact with a variety of security, communications and operational systems.
- .5 The M CCP console is designed to allow the Operator optimal viewing of the information presented, provide access to all necessary controls, provide a work surface for writing, and a location for storing reference materials.

### 1.2 Purpose

- .1 The purpose of the console is to provide a flexible and extensible platform that provides a sitting or standing Operator with ergonomic access to the displays and controls.
- .2 The primary control interfaces on the console are touch screen user interfaces for most systems. Additional monitors are provided for outputs that either do not require Operator interaction, or are managed from a system or component integrated on the M CCP console.
- .3 The systems integrated in the console may include:
  - .1 Perimeter Intrusion Detection System (PIDS) Integration Unit (PIU);
  - .2 Facility Alarm Annunciation System (FAAS) Integration Unit (FIU);
  - .3 PIDS Public Address (PA) System;
  - .4 Video Management System (VMS);
  - .5 Fence Disturbance System (FDS);
  - .6 Primary Radio Control System;
  - .7 Institutional PA System;
  - .8 Institutional Intercom System;
  - .9 Institutional Messaging System;
  - .10 Emergency telephone(s);
  - .11 Regular telephone(s);
  - .12 CSC network connected desktop computer interface;
  - .13 Door Control Systems;
  - .14 Perimeter Approach Systems.
  - .15 Additional components to support the above systems may include:
    - .16 Mouse or other pointing device;
    - .17 Speakers;
    - .18 Microphones.

## 2 REFERENCES

### 2.1 Specifications, Standards, and Statements of Work

- .1 Access to non-government specifications is the responsibility of the Contractor:
- CSA Standard C22.1 Canadian Electrical Code CSA Standard C22.1
  - IEC EN60950-1 International Electrotechnical Commission Information technology equipment – Safety
  - HDMI v1.0 High Definition Multimedia Interface
  - VESA FDMI VESA Flat Display Mounting Interface Standard (for Flat Panel Monitors/Displays/Flat TVs)

### 3 PHYSICAL LAYOUT

#### 3.1 Console Physical Configuration

- .1 The MCCP console must be designed primarily as a work station for one correctional officer under normal (non-emergency) conditions but must provide sufficient space to allow a second officer to assist with activities in the event of an emergency situation.
- .2 The work surface of the console must be at least 38 cm deep and include a back lip at least 2.5 cm high to keep materials from sliding off the back of the surface.
- .3 The work surface thickness must be 4 cm or less and deflect less than 3 mm when depressed with a force of 1000 N spread uniformly over a 200 mm diameter circular area.
- .4 The colour of the console desktop surfaces must be approved by the Design Authority.
- .5 The console supporting frame must be constructed of 14 gauge of heavier cold rolled steel or aluminum.
- .6 The console must be equipped with motorized controls that maintenance staff can adjust the height to meet specific operational needs using either standard or specialized tools.
- .7 The back of the console must include an area or shelf at least 20 cm wide along the back of the console, separate from cable trays or channels to hold any interface equipment such as KVMs, etc.
- .8 The console must be firmly bolted to the floor to prevent any movement or tipping. It should also be positioned to allow at least 100 cm clearance behind the console for wiring and maintenance activities.
- .9 The work surface of the console must be completely covered with an unattached, solid, clear transparent polycarbonate mat of no more than three segments that can be lifted manually to place papers underneath. Friction pads must be included to restrict mat sliding.

#### 3.2 Configuration of Console Monitors

- .1 The console must provide for six (6), 22" side-by side touch screen user interface monitors that are positioned in an open "U" configuration (2 left, 2 centre, 2 right) to allow the Operator to reach the complete display area of all monitors..

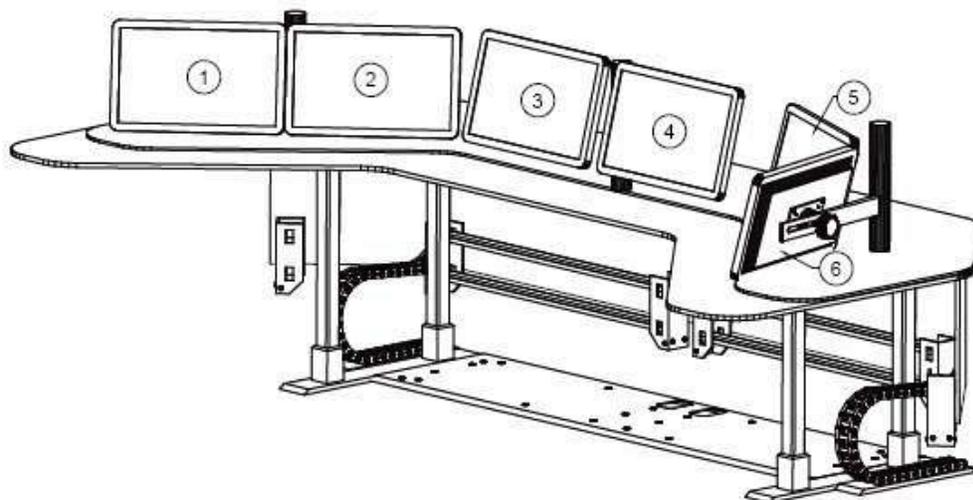
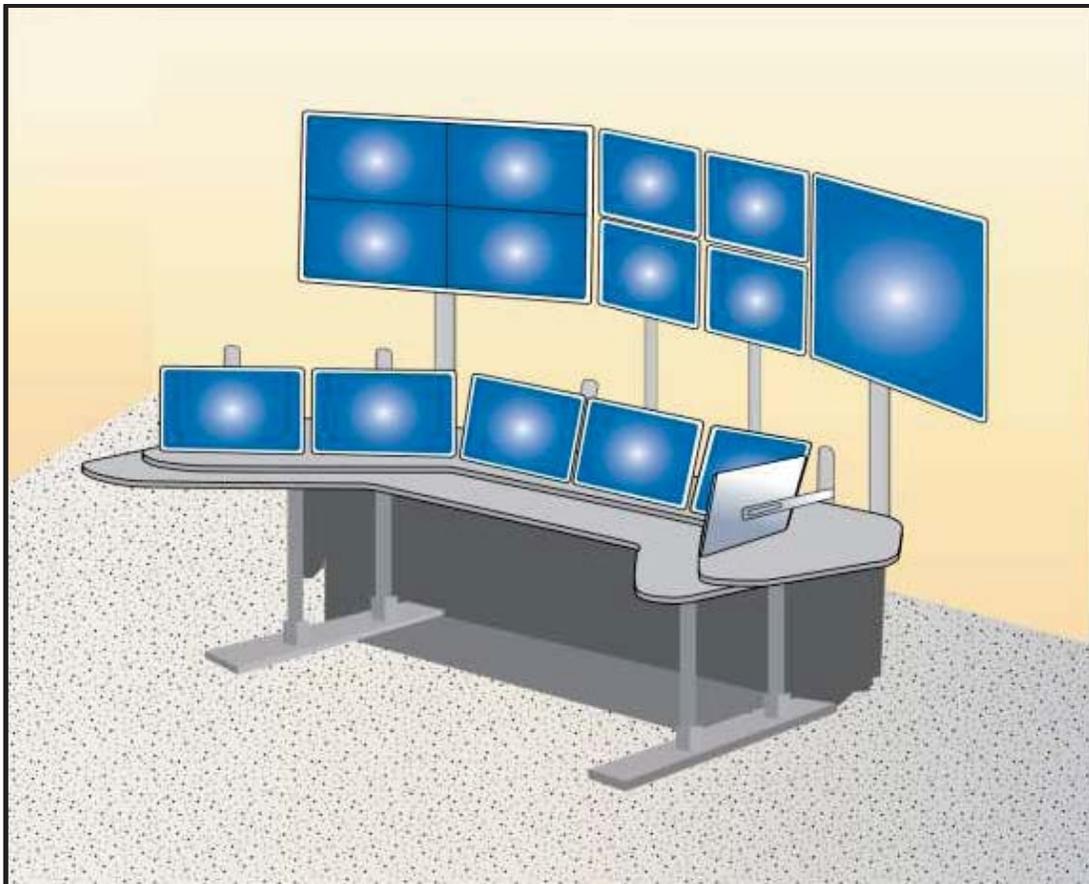


Figure 1 - Preferred Touch Screen User Interface Layout

- .2 The preferred arrangement for the monitors installed on the console desktop will be:

1.	IMS Workstation User Interface (as required)
2.	Motorola Radio Operator Touch Screen
3.	Perimeter Security (PIDS) Operator Touch Screen
4.	Interior System (FAAS) Operator Touch Screen
5.	Video Management System Operator Touch Screen
6.	Aggregator Operator Touch Screen

- .3 The mounts for the monitors must be compliant with the VESA FDMI standard. The monitors must be positioned between 5 cm and 10 cm above the desk surface and each monitor must be independently manually adjustable anywhere from vertical to at least 20 degrees back from vertical without interfering with adjacent monitors.



**Figure 2 – Layout of Touch Screen User interfaces and Video Monitors**

- .4 The console must be equipped with four (4), 22" side by side video monitors that are positioned immediately above and centred over the PIDS and FAAS touch screen user interface monitors and two (2) 42" video monitors that are positioned with one monitor on each side of the 22" side by side video monitor array. All six (6) monitors are for display only. For reference purposes, these monitors are numbered from 7 to 12 going left to right and top to bottom. The four (4) 22" video monitors that display the PIDS camera views will be on monitors 8,9 10,11, quad screen camera views displayed on 7 or 12 and a full screen camera view will be displayed on 12 or 7. The final assignment of the video monitors will be determined by the institution's equipment requirements and preferences..
- .5 The mounts for the video monitors must be compliant with the VESA FDMI standard. The mount must allow each monitor to be positioned independently anywhere from vertical to at least 20 degrees forward from vertical. The mount must allow each monitor to be positioned forward or backward to have the bezel adjacent to the bezel of the user interface monitor in any possible user interface monitor position.
- .6 Mount positions for all monitors must be able to be changed by maintenance staff without any special tools. Once positioned, the monitors must be able to be locked into position so as to avoid any movement as a result of touching or bumping the screens.
- .7 The console configuration must allow for Monitor 2 to be interchanged with a EIA-310 compatible rack with side and top panels that is between 30 cm and 35 cm high mounted between 5 cm and 10 cm above the desk surface. This provides a temporary location for legacy rack mount radio systems pending a system upgrade.

### 3.3 Ergonomic Requirements

- .1 Ergonomic requirements that must be considered when determining the size and positioning of the CCTV monitors must be based upon the human ergonomic 5<sup>th</sup> to 95<sup>th</sup> percentile criteria for males and females.
- .2 The height of a seated Operator must be between 31.3" (795 mm) to 38.3" (973 mm) measured from the chair seat to the top of the Operator's head.
- .3 The thigh clearance of a seated Operator must be between 21.0" (533 mm) to 26.8" (681 mm) measured from the floor to the top of the thigh.
- .4 The knee height clearance of a seated Operator must be between 19.8" (510 mm) to 28.0" (711 mm) measured from the floor to the top of the knee cap.
- .5 The eye height of a seated Operator must be between 42.6" (1082 mm) to 52.6" (1336 mm) measured from the floor to the Operator's eye.
- .6 The foot clearance under the console must be at least 65 cm measured from the front of the working surface at floor level over the complete width of the console.
- .7 The average reach distance of a Touch Screen User Interface for a seated Operator must be between 14" (356 mm) to 24" (610 mm) measured from the rear of the shoulder to the tip of the middle finger with arm extended.
- .8 The mounting height of each video monitor must be such that the top edge of the monitor field of view represents a maximum tilt of 30 degrees relative to the eye level of a seated Operator who falls within the 5<sup>th</sup> to 95<sup>th</sup> human ergonomic percentile
- .9 The mounting height of each video monitor must be such that the bottom of the field of view of a video monitor is not obstructed by turrets or Operator User Interface Monitors installed on the desktop work surface.
- .10 The 42" video monitors should be spaced such that the furthest left field of view and furthest right field of view represent a maximum pan of +/- 45 degrees relative to the Operator's eye position when facing directly forward.
- .11 The video monitors must be installed such that the distance between the monitor and the Operator's eye meets the manufacturer's optimum monitor viewing distance.

### **3.4 Cabling**

- .1 All cables must enter the console from floor level (typically through the floor) and travel through a flexible cable channel to horizontal cable trays or channels.
- .2 The cable trays or channels must allow for cables to be tie-wrapped to the tray/channel.
- .3 The cable trays or channels must be sized to allow for at least 40% unused room based upon initial installation cable requirements.
- .4 All cable entry points and locations passing through the surface or dividers must have grommets to prevent cable chafing.
- .5 All cables must be labeled with machine printed tags on both ends of cable.

### **3.5 Safety**

- .1 The console monitors must meet IEC 60950-1 or the CSA equivalent.
- .2 The console must support a minimum total load of 250 kg in excess of the monitors.
- .3 The console must not have any swing out or slide out components weighing more than 5 kg.
- .4 The console must have grounding straps installed.

### **3.6 MCCP Operator Chair Requirements**

- .1 The Operators Chair must meet the following requirements:
  1. Durability: Intensive Use Rated (24/7/365),
- .2 Warranty: Five (5) years on all components including parts and labour.
- .3 Construction:
  1. Standard Seat Dimensions: >20" (508 mm) Width x >19" (483 mm) Depth
  2. Seat: Dual density moulded polyurethane foam with 8-ply hardwood
  3. Base: Five (5) point base with heavy duty castors
  4. Backrest Dimensions: >19" (483 mm) Width X >24.5" (622 mm) Height
  5. Weight Capacity: >350lbs (158.8kg)
  6. Fabric: Abrasion resistant
  7. Fabric Colour: Black or charcoal
- .4 Adjustability:
  1. Backrest: Fully upholstered backrest system with a minimum of 5" (127 mm) range of vertical adjustment
  2. Headrest: Height adjustable
  3. Lumbar: Adjustable (air) support
  4. Seat Height: Adjustable to between 17.5" (445 mm) to 22.5" (572 mm)
  5. Back/Seat Angle: Heavy-duty 3-lever independent back/seat angle control.

**- END OF TEXT -**