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**The Fifth Canadian Public Safety Interoperability Workshop:**  
**A CITIG National Forum**  
*“From Results to Successes!”*

December 4 – 7, 2011  
The Fairmont Chateau Laurier  
Ottawa, ON

 **@CITIG\_Canada & #CITIG5**

**Conference Objective:**

The Fifth Canadian Public Safety Interoperability Workshop aims to again bring together a broad base of public safety and emergency management practitioners to develop a mutual understanding of the key voice and data interoperability issues facing today’s public safety sector. With a focus on information exchange, topic-specific discussion and interactive break-outs, the fifth national workshop aims to support and promote the transfer of best practices and experience, and the development of a more unified approach to public safety interoperability across the country, between nations and internationally.

Once again delegates can expect to be “put to work” in extensive break-out sessions. While some of these sessions are designed to continue the implementation of the Communications Interoperability Strategy for Canada, others will focus on providing support and assistance to regional delegates as they begin, or further, the development of local, regional, provincial and inter-provincial Communications Interoperability Plans. Additional break-outs will explore other aspects of the Canadian Interoperability Continuum such as creating governance models, SOPs, training and exercises and usage.

Delegates will come away with real-world insights, practical knowledge, and a common sense approach to moving forward. They will also be provided with numerous tools they can take home and begin working with immediately. The Workshop will also have hands-on sessions designed to help gain an understanding of, or work toward making progress on, key issues, including:

- National and cross-border interoperability planning
- Provincial, regional and local interoperability strategic planning
- Interoperability and the challenge of governance
- Trends in interoperability technology, including both voice and data-related issues
- Practical advice on running interoperability training & exercises

- Spectrum management and issues related to the digital economy
- Situational awareness, common/user defined operating pictures, GIS systems, blue force tracking and in-building 3D location
- 700 MHz Broadband for Mission Critical Public Safety Data
- Public alerting
- Converging mission critical voice and data networks

### **Target Audience:**

Interoperability leaders & practitioners from:

- First-responder agencies (law enforcement, fire, paramedics, emergency managers)
- Other public safety providers (federal, provincial, territorial, municipal)
- Military & Coast Guard
- Government agencies & utilities
- Non-governmental organizations in the emergency response and humanitarian aid sphere
- Academic and research institutions
- Industry

### **Conference Co-Chairs:**

- Division Chief Michael Sullivan, Ottawa Fire Services
- Superintendent Bill Moore, Halifax Regional Police, Co-Chair, Canadian Association of Chiefs of Police Interoperability Sub-Committee
- Mr. Trevor Maslyk, Executive Director of Alberta Health Services North
- Mr. Steve Palmer, Executive Director, Canadian Police Research Centre

### **Conference Working Group:**

- Division Chief Michael Sullivan, Ottawa Fire Services
- Superintendent Bill Moore, Halifax Regional Police, Co-Chair, Canadian Association of Chiefs of Police Interoperability Sub-Committee
- Mr. Trevor Maslyk, Executive Director of Alberta Health Services North
- Superintendent Mark Toman, Operation Support, Toronto Emergency Medical Services
- Inspector Lance Valcour (Ret.) O.O.M., Canadian Police Research Centre
- Mr. Peter Cuthbert, Executive Director, Canadian Association of Chiefs of Police
- Ms. Veronica Lahti, Project Coordinator, Canadian Association of Chiefs of Police
- Ms. Sara Sowieta, Project Assistant, Canadian Association of Chiefs of Police
- Media Liaison: Mr. Marc Messier, Public Information Officer, Ottawa Fire Services

CITIG, IAEM Canada and IAEM Canada Student Region are proud to Announce that the winner of their 2011 Scholarship Award is:

Alison Buchanan, Environment Canada & Masters in Emergency Management Student at York University.

For more about Alison or to apply for the 2012 Scholarship please visit [www.citig.ca](http://www.citig.ca)

## **Sunday, December 4, 2011**

**13:00-16:00 Special Workshop:**  
**Social Media for Emergency Management – A “Hands On” Tutorial** (*Renaissance Room*)

**NOTE:** Only delegates registered for CITIG #5 can register for this special workshop and we are only accepting the first 50 registrations in order to make this event as interactive and personal as possible.

We are pleased to announce that we are hosting our first ever Social Media for Emergency Management – A “Hands On” Tutorial in partnership with the International Association of Chiefs of Police (IACP) Center for Social Media (<http://www.iacpsocialmedia.org/>).

Participants in this workshop are expected to bring their own computers and/or hand held devices (with wireless access) as our expert #SMEM (Hash Tag for Social Media for Emergency Management) facilitators will be helping you get started with creating your own social media accounts. The three hour session will commence with a high level overview from a number of North America’s leading SM practitioners. We will then break into smaller groups (SM 101, SM 201, etc.) to provide personal, hands on, tutorials.

The session will then close with a “Round Table” discussion on #SMEM, current state, future state and gaps between the two with a view to potential future research.

Again, this session is only open to the first 50 delegates who have ALREADY registered for the full Fifth Canadian Public Safety Interoperability Workshop. There will be NO registrations at the door.

**Moderator:** Inspector Lance Valcour (Ret.), Canadian Police Research Centre

**Facilitators:**

- Ms. Nancy Kolb, International Association of Chiefs of Police, Center for Social Media
- Sergeant Tim Burrows, Toronto Police Service
- Mr. John Saunders, Director, Disaster Management, Ontario Red Cross
- Mayor Madeleine Redfern, City of Iqaluit

**17:00-19:00 Registration** (*French Corridor*)

**18:00-20:00 Meet and Greet** (*Suite 558*)

## **Monday, December 5, 2011**

**07:00**                    **Registration** (*French Corridor*)

**07:00-19:15**           **Exhibit Show** (*French Corridor, Drawing Room & Foyer*)

**07:00-08:30**           **Breakfast – Exhibit Area**

**08:30-08:45**           **Opening Remarks** (*Ballroom*)

- Chief Vern White, Ottawa Police Service
- Chief Anthony Di Monte, Ottawa Paramedic Service
- Chief John deHooze, Ottawa Fire Services
- Mr. Steve Palmer, Executive Director, Canadian Police Research Centre

### **SESSION 1**

**08:45-09:15**           **Welcoming Comments** (*Ballroom*)

The Honourable Vic Toews, Minister of Public Safety

**Moderator**

Superintendent Bill Moore, Halifax Regional Police, Co-Chair, Canadian Association of Chiefs of Police Interoperability Sub-Committee

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**SESSION 2**  
**09:15-10:00**

**Session (Ballroom)**

Public Safety Interoperability in Ontario

**Objective**

In this highly technical information age, improving interoperability between major stakeholders and first responders is key to ensuring a timely, coordinated, and effective emergency response, but it also represents a significant challenge to the public safety community:

- Communication systems are always changing.
- Municipalities, provinces and federal government departments must work within Canada's legal framework as they collaborate to solve common problems.
- Many municipalities grapple with infrastructure and equipment acquisition.

To address such challenges, Ontario has created a task group – the Province of Ontario Interoperability Task Group, or POINT TG – which serves as a forum for the advancement of public safety interoperability in the province.

Chaired by Emergency Management Ontario (EMO) and responsible to the Commissioner of Community Safety, the POINT TG is a transformational tool and includes voting members from across Ontario's public safety community. Members include provincial ministries, the Canadian Forces, Public Safety Canada, municipalities, the Ontario Provincial Police, Emergency Medical Services, and Police and Fire Chiefs Associations in Ontario, and the Canadian Interoperability Technology Interest Group, among others.

The ability to create a common perspective and enhance functional interoperability has enabled Ontario's public safety stakeholders to finalize a new Interoperability Campaign and develop common positions on complex issues. The best example of the latter was Ontario's submission to Industry Canada in February 2011 on the use of bandwidth in the 700 MHz range. The POINT TG was the focal point for discussion, organization and preparation of Ontario's position on the need for bandwidth for public safety professionals.

**Presenter**

- Mr. Dan Hefkey, Commissioner of Community Safety, Ministry of Community Safety and Correctional Services, Ontario

**Moderator**

Division Chief Michael Sullivan, Ottawa Fire Services

**10:00-10:30**

**Network Break – Exhibit Area**

### **SESSION 3**

**10:30-10:45**

#### **Sponsor Session (Ballroom)**

Interoperability and Connectivity

#### **Objective**

Addressing the challenge of Public Safety connectivity in a narrowband, broadband, private LTE, public carrier future.

#### **Presenter**

- Dr. John Vaughan, Vice President, Public Safety and Professional Communications, Harris Corporation

#### **Moderator**

Superintendent Mark Toman, Operation Support, Toronto Emergency Medical Services

### **SESSION 4**

**10:45-12:00**

#### **Session (Ballroom)**

Communications Interoperability Strategy and Action Plan for Canada - Update and Next Steps

#### **Objective**

The Communications Interoperability Strategy for Canada and its supporting Action Plan is intended to guide the development of interoperability-related policies, programs and investments at all levels of government across the country. In the last year, Public Safety Canada has provided leadership for the advancement of communications interoperability in Canada. This has been accomplished through close cooperation with organizations such as the Tri-Services Chiefs Associations, the Canadian Interoperability Technology Interest Group and provincial and territorial emergency management partners.

This session is intended to update participants on the advancements Public Safety Canada has made on action items such as the Interoperability Development Office, the Multi-Agency Situational Awareness System, and the 700 MHz implementation strategy. It will also profile the Public Safety Canada overall direction for the implementation and support for the adoption of common data exchange standards with our public safety partners and across the federal government.

#### **Presenters**

- Mr. Serge Beaudoin, Director General, Emergency Management Policy, Public Safety Canada
- Mr. Richard Moreau, Public Safety Canada, Science, Technology and Interoperability
- Mr. Bernard St. Laurent, Public Safety Canada, Science, Technology and Interoperability
- Ms. Linda Hunter, Public Safety Canada, Interoperability and Portfolio Management, Chief Information Officer Directorate

#### **Moderator**

Superintendent Mark Toman, Operation Support, Toronto Emergency Medical Services

**12:00-12:15 Special Presentation: CITIG National Awards for Public Safety Interoperability**

**Recipients**

- Mr. Roger Poirier, General Manager, Radio Advisory Board of Canada
- Mr. Ernest MacGillivray, Director, New Brunswick Emergency Services, Department of Public Safety

**Presenters**

- Division Chief Michael Sullivan, Ottawa Fire Services
- Superintendent Bill Moore, Halifax Regional Police, Co-Chair, Canadian Association of Chiefs of Police Interoperability Sub-Committee
- Mr. Trevor Maslyk, Executive Director of Alberta Health Services North
- Mr. Steve Palmer, Executive Director, Canadian Police Research Centre

**12:15-13:30 Lunch – Exhibit Area**

**SESSION 5**

**13:30-14:30**

**Session (Ballroom)**

Major Land Mobile Radio Project Updates

**Objective**

In this fast paced session (10 minutes per presenter), delegates will get high level updates on a number of major radio interoperability projects from coast to coast. The speakers will pay special attention to providing updates on all five lanes of the Interoperability Continuum.

**Presenters**

- Mr. Terry Canning, Provincial Interoperability Coordinator, Public Safety & Field Communications, Province of Nova Scotia
- Mr. Frank Grimaldi, Province of Ontario
- Mr. Mike Webb, Vice-President of Technology, E-Comm
- Mr. Michael Doucet, Chief Information Officer, Royal Canadian Mounted Police
- Mr. John Leitch, Province of Saskatchewan

**Moderator**

Mr. Trevor Maslyk, Executive Director of Alberta Health Services North

**SESSION 6**

**14:30-14:45**

**Sponsor Session (Ballroom)**

Airwave Solutions Ltd.

**Presenter**

- Mr. Euros Evans, Chief Technology Officer, Airwave Solutions Ltd.

**Moderator**

Mr. Trevor Maslyk, Executive Director of Alberta Health Services North

**14:45-15:15**      **Network Break – Exhibit Area**

**SESSION 7**  
**15:15-16:15**

**Session** (*Ballroom*)

Regional Interoperability Strategic Planning

**Objective**

This session is designed to showcase three different interoperability strategic planning processes currently ongoing in the Province of Ontario. While their overall goal is to link to the Provincial Interoperability Plan, known as POINT, and the National Plan, known as CSIC, these presenters will showcase their approach, overall goals and objectives and how each tie to the Interoperability Continuum in their own unique way.

This is a must attend for those that are currently working or, or thinking about developing, interoperability strategic plans for communities large or small.

**Presenters**

- Chief Kai Liu, Gananoque Police Service
- Inspector Joseph Maiorano, Durham Regional Police Service
- Mr. Harry Dunning, Manager of Administration & Emergency Preparedness, City of Guelph

**Moderator**

Division Chief Michael Sullivan, Ottawa Fire Services

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**SESSION 8**  
**16:15-16:30**

**Sponsor Session (Ballroom)**

How Interoperability and P25 Has Changed the LMR Procurement Paradigm

**Objective**

For decades, the public safety sector has been tied to single-vendor, proprietary communications systems. Today this is no longer true, thanks to the Project 25 (P25) suite of standards which establishes an open architecture for digital radio systems, and allows agencies to integrate best-in-class components from disparate manufacturers – creating the optimal communications network, both in terms of cost-savings and quality of equipment.

The proven success of this “unbundled” procurement model has raised the bar on the flexibility, quality and cost-effectiveness that organizations can expect from their public safety communications networks, and clears the way for all agencies to demand interoperable, standards-based – and truly customer-focused – network solutions.

This presentation will cover the benefits of the open P25 standards and how your agency can leverage interoperability to engineer a world-class system while reducing your total cost of ownership.

**Presenter**

- Mr. Francois Begaud, Vice-President, Solutions & Product Business Management Applications, P25 & LTE, Cassidian Communications, an EADS North American Company

**Moderator**

Superintendent Bill Moore, Halifax Regional Police, Co-Chair, Canadian Association of Chiefs of Police Interoperability Sub-Committee

## **SESSION 9**

**16:30-17:45**

### **Breakout Sessions (A – E)**

Provincial Interoperability Updates and Workshops

#### **Objective**

These sessions, to be led by a key interoperability leader from each of the five regions of Canada (Atlantic, Québec, Ontario, Prairies and Territories, and British Columbia), will provide regional updates. Delegates, will self-select either by where they work or area of interest, and will be provided an opportunity to give feedback into the Provincial/Territorial Interoperability Planning Process.

#### **Presenters**

**A – Atlantic Canada** (*Suite 558*) – Superintendent Bill Moore, Halifax Regional Police Service

**B – Québec** (*Québec Suite*) – Inspecteur Benoit Charron, Service de police de la Ville du Gatineau

**C – Ontario** (*Ballroom*) – Inspector Joseph Maiorano, Durham Regional Police & Ontario Association of Chiefs of Police

**D – Prairies and Territories** (*Laurier Room*) – Mr. Trevor Maslyk, Executive Director - North/Edmonton Zone, Alberta Health Services

**E – British Columbia** (*Renaissance Room*) – Superintendent Pascal Rodier, British Columbia Ambulance Service

**17:45-19:15**

### **Exhibitors Reception**

## **Tuesday, December 6, 2011**

**07:00-15:00** Exhibit Show (*French Corridor, Drawing Room & Foyer*)

**07:00-08:00** **Breakfast – Exhibit Area**

**08:00** **Opening Remarks** (*Ballroom*)  
Division Chief Michael Sullivan, Ottawa Fire Services

**08:05-08:15** **Recap of Breakout Sessions** (*Ballroom*)

**SESSION 10**  
**08:15-09:00**

**Session (Ballroom)**

**Arctic & Remote Interoperability – Challenges and Opportunities**

**Objective**

Interoperability can be a challenge in any region, but that challenge is intensified for those responders and governments in the Arctic and other remote areas of our vast country. Limited to no infrastructure, hundreds of kilometres between communities and limited resources are just a few of the obstacles that face these areas. However, a few of the traits our partners to the North have in spades are determination, innovation, dedication and a willingness to work with anyone willing to help.

In this session we will hear details about the Arctic Communications Infrastructure Assessment and what its recommendations could mean to improving public safety interoperability above the 60<sup>th</sup> parallel.

We will also hear from the Mayor of Iqaluit about the unique challenges she faces as the leader of a municipal government in the Arctic and some of the innovative solutions she has found, and is exploring, including the use of Social Media.

**Presenters**

- Ms. Kellie Mitchell, Public Safety Canada
- Major Tom Bachelder, Joint Task Force North Headquarters, National Defence
- Mayor Madeleine Redfern, City of Iqaluit

**Moderator**

Mr. Steve Palmer, Executive Director, Canadian Police Research Centre

**SESSION 11**  
**09:00-10:00**

**Session (Ballroom)**

700 MHz for Mission Critical Public Safety Data: Why should I care?

**Objective**

Since being launched by the Tri-Services Chiefs' Associations at CITIG #4 in Victoria last December, The Special Purpose Committee on 700 MHz Broadband for Mission Critical Data ([www.Action700.ca](http://www.Action700.ca)) has been extremely active. In addition to their tireless work in rallying an unprecedented response to Industry Canada's request for submissions on the issue, they have continued to provide education and awareness on this "once in a lifetime opportunity."

As integral members of the Senior Officials Responsible for Emergency Management (SOREM) Interoperability Working Group, they have participated in the 700 MHz Project Team, led by Public Safety Canada.

One of the first groups the Action 700 Team partnered with was the Federation of Canadian Municipalities. With more than 1,900 members, FCM represents the interests of municipalities on policy and program matters that fall within federal jurisdiction. Members include Canada's largest cities, small urban and rural communities, and 21 provincial and territorial municipal associations.

This Session will outline some of the history of 700 MHz Broadband for Mission Critical Public Safety Data and answer questions such as:

"Why should I care?"

"What does this mean for the future of my Land Mobile Radio system?"

"What's in this for small to medium size communities?"

"What do I need to do in order to prepare for this new capability?"

"How am I going to pay for this "new" technology when I can't afford to upgrade my old equipment?"

**Presenters**

- Superintendent Bill Moore, Halifax Regional Police
- Superintendent Pascal Rodier, British Columbia Ambulance Service
- Division Chief Michael Sullivan, Ottawa Fire Services
- Councillor Berry Vrbanovic, City of Kitchener, President of the Federation of Canadian Municipalities

**Moderator**

Inspector Lance Valcour (Ret.) O.O.M., Canadian Police Research Centre

## **SESSION 12**

**10:00-10:15**

### **Sponsor Session (Ballroom)**

LTE/700 MHz and the evolution of Land Mobile Radio

#### **Objective**

LTE technology and the availability of new 700 MHz Spectrum for Public Safety agencies across North America will re-define Mission Critical public safety Data communications over the next decade. This presentation discusses features/functionality, capabilities and dramatic new business benefits that this new technology will bring to existing Public Safety Land mobile Radio communications systems. The presentation will discuss how LTE/700 MHz technologies can complement existing Land Mobile Radio systems, providing a platform for enhanced situational awareness, improved interoperability and information sharing, and a natural evolution path for current and planned P25 Land Mobile Radio systems.

#### **Speaker**

- Mr. Derek Prada, GM, Federal & Atlantic Canada Markets, Government & Commercial Markets Division, Motorola Canada Limited

#### **Moderator**

Superintendent Mark Toman, Operation Support, Toronto Emergency Medical Services

**10:15-10:45**

**Network Break – Exhibit Area**

## SESSION 13

10:45-12:00

### Breakout Sessions (1 – 4)

#### Breakout 1 (*Laurier Room*)

Multi-Agency Situational Awareness System – Advancing on the Interoperability Continuum

Governance √, Technology √, Training/Exercises √ - Now we need 1<sup>st</sup> Responder-defined SOPs!

#### Objective

Most attendees will already be aware of MASAS and the significant potential it has to advance interoperability for first responder situational awareness. This interactive session will provide an opportunity to discuss and influence how this new capability evolves as a national capability. Implementing the technology is the ‘easy part’, governance is more difficult but coming along nicely. This interactive session will give the opportunity for some basic “hands on” free play to populate information on a map using MASAS – the goal however is to stimulate a lively discussion and Q&A to advance some understanding on the “SOPs” for use of MASAS that will need to emerge from fire/police/EMS/EM 1<sup>st</sup> responders as this new capability becomes a routine operational tool. Imagine having this capability in your smart phone, how would you see it being used or not-used in support of your routine operations? What are the risks and benefits? The panel will provide basic instruction and the opportunity to interact with experts from the MASAS National Implementation Team who will be ‘all ears’ on how 1<sup>st</sup> responders would like to see implementation of MASAS-enabled capabilities in the near future.

#### Presenters

- Mr. Jack Pagotto, Head/Emergency Systems & Interoperability S&T, Public Security Technical Program, Centre for Security Science
- Mr. Doug Allport, MASAS National Implementation Team, Centre for Security Science

#### Moderator

Mr. Steve Palmer, Executive Director, Canadian Police Research Centre

## **Breakout 2 (Ballroom)**

700 MHz Broadband for Mission Critical Public Safety Data – A Technical Discussion

### **Objective**

700 MHz has been called the “Beachfront” property of the spectrum world. This is due to its unique characteristics that include an ability to travel long distances and penetrate buildings well. For the same reason that television stations used this frequency when they first started transmitting so many years ago, telecommunications companies and public safety agencies are now vying for this “once in a lifetime” opportunity to “own” some of this spectrum.

So why exactly is this spectrum so valuable? Why do so many public safety advocates, including the Canadian Associations of Chiefs of Police, Canadian Association of Fire Chiefs and Emergency Medical Services Chiefs of Canada, the Federation of Canadian Municipalities and governments across Canada say that public safety needs 20 MHz of this prime real estate? What research has been done to justify this position? What are the technical challenges of building a nation-wide system of systems in Canada and tying this network with its US counterpart being developed in the United States? Long Term Evolution (LTE) is the cellular standard that has been accepted for moving forward around the world. What does this mean to public safety interoperability? How will public safety and industry work together on technical standards?

To hear the answers to these and many other technical questions (other areas of the Interoperability Continuum will be covered in a number of Plenary Sessions), attend this break-out and hear experts from both Canada and the US.

Delegates attending this session will not only listen, but help drive the future vision with an interactive facilitated component of the session.

NOTE: This discussion is NOT about 700 MHz narrowband being used for Land Mobile Radio systems in Canada, but about 700 MHz broadband we will use for mission critical devices like BlackBerry’s, tablets, in car computers, secure emergency data , etc.

### **Presenters**

- Mr. DJ Atkinson, Lead Project Engineer, Public Safety Communications Research
- Mr. Jeff Bratcher, Division Chief, Public Safety Communications Research
- Mr. Claudio Lucente, Special Advisor, Public Safety 700MHz Broadband Project, Public Safety Canada
- Mr. Joe Fournier, Wireless and Inter-networking Systems Experimentation LABoratory (WISElab), Communications Research Centre Canada

### **Moderator**

Division Chief Michael Sullivan, Ottawa Fire Services

### **Breakout 3** (*Renaissance Room*)

Public-Private Partnership for Communications Interoperability Projects: Making it Real

#### **Objective**

Public-Private Partnerships (P3) present unique opportunities to first responder and government agencies looking for innovative solutions to their communications needs. However, understanding the myriad of issues that surround these procurement and operational partnerships can be a daunting task.

It was with this in mind that we invited our panel of experts to lead an interactive and informative session designed to help delegates understand if these kinds of arrangements are best suited to their needs.

#### **Presenters**

- Mr. Jamey Burr, Director, Business Development, P3 Canada
- Mr. Massimiliano (Max) Claps, Gartner Government Research
- Mr. David Guscott, President & CEO, E-Comm, Emergency Communications of British Columbia

#### **Moderator**

Superintendent Mark Toman, Operation Support, Toronto Emergency Medical Services

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#### **Breakout 4 (Quebec Suite)**

##### **3-D Indoor Location Tracking and Monitoring of First Responders**

#### **Objective**

First responders, such as firefighters, often operate in extreme environments and may sometimes become disoriented (e.g., inside buildings) and disabled even in relatively small incidents. Many incidents such as the events of 9/11 and the Worcester, Massachusetts Cold Storage Warehouse fire that killed six firefighters have highlighted the need for an accountability system to accurately locate, track, monitor, and visualize the locations of responders on a geospatial map. This will allow incident commanders and tactical-decision makers to virtually observe personnel movements in real time to avoid loss of life.

Over the past few years, the need to locate, track, and monitor responders has been identified as one of the top priorities for the responder community, not only in the US but also globally in numerous other countries, including Canada. Recent advances in sensors, communication systems, and software have made it possible to develop solutions to solve the indoor tracking problem. This Session is intended to help developers, practitioners, and the user community to

- Understand the tracking problem
- Learn about the state of existing solutions and products
- Provide a status of technology development and timeline
- Engage the user community to ensure that technology/system developers are aware of the specific technical and operational requirements
- Solicit input on how to test, evaluate, and validate solutions for various concepts of operations

It is anticipated that the attendees will enhance their knowledge of the location tracking solutions and also participate in discussions about the acquisition, use, and training for such systems.

#### **Presenters**

- Mr. Jalal Mapar, Program Manager, DHS Science & Technology Directorate, Infrastructure Protection & Disaster Management Division, Washington, DC
- Mr. Andrew Kostiuk, Toronto Fire Service

#### **Moderator**

Mr. Trevor Maslyk, Executive Director of Alberta Health Services North

**12:00-13:00**

**Lunch – Exhibit Area**

**SESSION 14**  
**13:00-13:45**

**Session (Ballroom)**

Communications Interoperability around the world – How Non-Governmental Organizations Manage

**Objective**

In times of need around the world there is one constant – the fact that Non-Governmental Organizations, such as the Red Cross and Salvation Army, will be there to help. Whether it be helping local responders by bringing food and drinks to a senior's building that has been evacuated to major disasters with long term needs such as food distribution and managing cholera outbreaks.

What is often overlooked is the complexity of managing information (voice and data) from such a diverse set of locales: from Goderich Ontario to Haiti to Japan.

This session features three NGO experts with a wide range of experiences around the world. While their presentation is focused on how NGO's manage interoperability challenges, the lessons learned will be of value to all. If nothing else, it is hoped that in your next round of interoperability strategic planning you remember to reach out to your NGO partners and make them part of your process.

**Presenters**

- Mr. John Saunders, Director, Disaster Management, Ontario Red Cross
- Major Rick Shirran, Territorial Emergency Disaster Services Director, Salvation Army

**Moderator**

Superintendent Mark Toman, Operation Support, Toronto Emergency Medical Services

## **SESSION 15**

**13:45-14:30**

### **Session (Ballroom)**

Blue Force Tracking – Current and Future State

#### **Objective**

For years first responders have been tracking their vehicles using Automated Vehicle Location and/or Global Positioning Satellites. However, as soon as the responder moved away from their vehicle their location was no longer know – thus creating a health and safety issue as well as a lack of situational awareness both for the responder and their supervisors. Now agencies around the world are looking to their military cousins who have pioneered the concept of “Blue Force (good guys) Tracking. These systems allow for far more effective and efficient tracking of personnel both during daily events, searches and in times of emergency or disaster.

Our speakers will present real life case studies of how this technology, and the supporting lanes of the Interoperability Continuum, are helping to shape the future of situational awareness for all responders.

#### **Presenters**

- Mr. Robert Darts, GIS Coordinator, E-Comm
- Ms. Gayle Guilford, Director of Management Information Systems, Baltimore Police Department

#### **Moderator**

Division Chief Michael Sullivan, Ottawa Fire Services

**14:30-15:00**

**Network Break – Exhibit Area**

**SESSION 16**  
**15:00-16:00**

**Session (Ballroom)**

Implementing a 700 MHz Broadband Network for Mission Critical Public Safety Data in New York City

**Objective**

In the aftermath of the horrific attack on the World Trade Centre in New York City on 9/11, it became clear that a lack of interoperability between responders played a significant role.

In the ten years following those attacks, NYC responders have worked hard to improve their voice interoperability capabilities. However, on the issue of public safety broadband, they, like other North American responders, view 700 MHz broadband as a “once in a lifetime” opportunity to get it right!

Deputy Chief Charles Dowd is responsible for Communications at the New York Police Department and is a tireless advocate on the issue of 700 MHz broadband for mission critical public safety data. He will provide delegates with a high level overview of the current situation in the United States and then hone in on ongoing plans in NYC to develop, implement and leverage a state of the art 700 MHz LTE network – part of the National Network that has been proposed by President Obama.

**Presenter**

- Deputy Chief Charles Dowd, New York Police Department

**Moderator**

Superintendent Bill Moore, Halifax Regional Police, Co-Chair, Canadian Association of Chiefs of Police Interoperability Sub-Committee

## **SESSION 17**

**16:00-17:15**

### **Breakout Sessions (5 – 8)**

#### **Breakout 5** (*Renaissance Room*)

Networked/ Connected Vehicles – What it means to Public Safety Interoperability

#### **Objective**

Networked, or connected, vehicle research has been ongoing internationally for many years. Most vehicles purchased today are “networked” in the sense that they share information about their status with various systems internal to the vehicle. What is missing, except in the lab setting, is the connection with all the other vehicles that are in the same area.

Today, a First Responder’s vehicle is in a transition phase from an autonomous system to a fully integrated part of a highly connected network which covers all aspects of communication requirements, relevant services, safety, traffic, efficient use of energy and financial transactions. This transition will have a massive impact on First Responders, and how they do their jobs.

The Canadian Advanced Technology Alliance, Networked Vehicle Association, Ministry of Transportation Ontario and various first responder organizations have joined forces in proposing the development of a “First Responder Test Bed” in the Ottawa area. The Canadian Police Research Centre, as part of its “Call for Proposals” process, and the Communications Research Centre are involved in these discussions.

This session will provide background information about networked vehicles and what they mean for public safety interoperability. Delegates attending this fast paced Break-out session will be put to work in helping to identify potential uses for the Test Bed and, hopefully, express an interest in participating at the appropriate time.

#### **Presenters**

- Mr. Barry Gander, VP, Canadian Advanced Technology Alliance & Chair, Networked Vehicle Association
- Mr. Claude Belisle, VP, Communications Research Centre
- Mr. Rick Turner, Account Director, Alcatel-Lucent

#### **Moderator**

Mr. Steve Palmer, Executive Director, Canadian Police Research Centre

## **Breakout 6** (*Quebec Suite*)

### Emergency Alerting and Interoperability

#### **Objective**

This breakout session allows discussion on how alerting plays a strong role in Canada's Communications Interoperability Continuum. Examples will be presented, such as those delivered by the Alberta Emergency Management Agency and the University of Windsor, which will show how divergent organizations with similar yet different emergency functions and responsibilities, have customized their notification measures to not only their respective populations but also to serve the communications demands of first responders and individuals charged with managing crises.

Delegates of this session will work in groups to identify the current state of emergency alerting and interoperability in their jurisdictions. They will then be asked to take a look into the future to identify their needs and possible action plans to meet objectives specific to their region or agency.

#### **Presenters**

- Ms. April Diver, Alberta Emergency Alert Project Manager, Alberta Emergency Management Agency
- Sergeant Christopher Zelezney, Emergency Preparedness Coordinator, University of Windsor Campus Community Police, Emergency Operations Centre

#### **Moderator**

Mr. Trevor Maslyk, Executive Director of Alberta Health Services North

### **Breakout 7 (Ballroom)**

The P25 Standards Process - What does it look like and where are we now?

#### **Objective**

Recognizing the need for common standards for first responders and homeland security, representatives from the Association of Public Safety Communications Officials International (APCO), the National Association of State Telecommunications Directors (NASTD), selected Federal agencies and the National Communications System (NCS) established Project 25, a Steering committee for selecting voluntary common system standards for digital public safety radio communications. The Telecommunications Industry Association (TIA) TR-8 Engineering Committee facilitates such work through its role as an ANSI-accredited Standards Development Organization. A Memorandum of Understanding was established in 1992 and amended in 1993 between the APCO/NASTD/FED P25 and TIA wherein TIA agreed to use its ANSI accredited process to develop technical documentation to assist APCO/NASTD/FED P25 in defining a standard for digital public safety radio communications.

This session will specifically focus on:

- P25 – What it is and is not.
- The relationship between system interfaces, the TIA-102 Suite of Documents, and P25
- The current state of the Project 25 Compliance Assessment Program.
- The role of the P25 User Needs Statement of Requirements in the process.
- Related questions from the floor.

#### **Presenters**

- Mr. DJ Atkinson, Lead Project Engineer, Public Safety Communications Research
- Mr. Jeff Bratcher, Division Chief, Public Safety Communications Research
- Mr. Robert J. Speidel, Esq., Chairman, Telecommunications Industry Association (TIA) Private Radio Section (PRS)

#### **Moderator**

Superintendent Mark Toman, Operation Support, Toronto Emergency Medical Services

### **Breakout 8 (Laurier Room)**

Canadian Police Research Centre: Supporting police, fire fighter and paramedic services with knowledge, tools and technologies

#### **Objective**

The Canadian Police Research Centre (CPRC) began serving the needs of the Canadian police community in 1979. In 2007, this broadened to include the Canadian paramedic and fire services. Key to providing relevant service is an understanding of each community's gaps and priorities. This break-out is designed to inform the communities of some of the types of systems CPRC is examining to create annual iterative gaps and priority systems for each of the communities it serves and seek the feedback from the member communities on the features of the system that would best serve their needs.

#### **Delegates will:**

Explore methods of identifying critical elements of a standardized and iterative annual gap and priority process for emergency services.

Three systems will be presented for review.

The EMS Chiefs of Canada has established a working group or the National Research Committee to create a Canadian National EMS Research Agenda study. This study for the first time included paramedics, paramedic researchers, physicians, physician researchers, educators, and other key stakeholders to discuss barriers, opportunities, and priorities for EMS research. The results of the Canadian National EMS Research Agenda study will be used to produce a roadmap for the future of Canadian EMS research.

Dr. Satyamoorthy will describe his work within CAST, (the Centre for Applied Science and Technology - Home Office UK) in developing systems to utilize Horizon Scanning to develop robust, future capability requirements within the Home Office. This work is to be integrated into the strategy and business planning processes within the CAST.

The German Federal Police Bundeskriminalamt (BKA) have developed a comprehensive review process for Horizon Scanning of new technologies that are expected to impact them. This process has now been expanded to include the participation of several other European countries.

#### **Presenters**

- Chief Doug Socha, Hastings-Quinte EMS
- Dr. Satyamoorthy (Kabi) Kabilan, Head of Strategic Futures (Horizon Scanning), Centre for Applied Science and Technology, Home Office

#### **Facilitator**

Mr. John Evans, Canadian Police Research Centre

#### **Moderator**

Division Chief Michael Sullivan, Ottawa Fire Services



## Wednesday, December 7, 2011

**07:30-08:30**      **Breakfast**

**08:30**            **Opening Remarks** (*Ballroom*)  
Mr. Trevor Maslyk, Executive Director of Alberta Health Services North

**08:35-08:45**      **Recap of Breakout Sessions** (*Ballroom*)

### **SESSION 18**

**08:45-09:45**      **Session** (*Ballroom*)  
Slave Lake Case Study

#### **Objective**

On Sunday, May 15, 2011 the town of Slave Lake Alberta was decimated by wildfire. This incident, one of several wildfires threatening communities, resulted in the largest evacuations in Alberta's history, requiring a coordinated response from responders as far away as Calgary – almost 600 kilometres away.

In addition to the myriad of challenges faced by local, regional and provincial responders, communications interoperability was at the forefront. While the new Alberta First Responders' Radio Communication System will go a long way toward facilitating response during any future incidents, the reality is that this situation could, and likely will, happen again elsewhere in Canada.

Delegates will hear from a wide range of responders who attended Slave Lake in support of the Provincial Government's response. They will provide lessons learned from a communications interoperability perspective and outline their frank recommendations for the way forward.

#### **Presenters**

- Deputy Chief Tom Sampson, Calgary Emergency Management Agency, The City of Calgary
- Mr. Patrick Henneberry, Director, Special Projects, Public Safety Division, Municipal Affairs
- Mr. Curtis Brochu, Transformation Consultant, Alberta First Responder Radio Communication System (AFRRCS)

#### **Moderator**

Mr. Trevor Maslyk, Executive Director of Alberta Health Services North

## **SESSION 19**

**09:45-10:30**

### **Session (Ballroom)**

MASAS in the Mobile Environment

#### **Objective**

The City of Sarnia Ontario Fire Services has been awarded CPRC funding to evaluate MASAS in the tri-service mobile environment. The project includes posting and polling information using smartphones, tablets and in-vehicle consoles. This session will share some early lessons learned by Lambton County EMS using MASAS within their Interdev in-vehicle platform. It will also engage the audience in a discussion of the potential of MASAS for the tri-services.

#### **Presenters**

- Chief Jeff Brooks, EMS, Lambton County, ON
- Inspector Norm Hansen, Support Services Division, Sarnia Police Service

#### **Moderator**

Division Chief Michael Sullivan, Ottawa Fire Services

## **SESSION 20**

**10:30-11:00**

### **Session (Ballroom)**

Demonstrating NIEM Data Exchange between Canada, US and Mexico: Moving Towards an Interoperable “Network” for Law Enforcement and Beyond

#### **Objective**

The CACP Informatics Law Enforcement Information Data Standards (LEIDS) sub-committee will provide an update on the Canadian Law Enforcement Exchange Standard, and the next steps, implementation within the law enforcement community.

Public Safety Canada will highlight three pilot projects; two on data exchange on suspicious activity reporting (between RCMP and Edmonton Police Service; and, between RCMP and Department of Homeland Security) and one based on a Tri-Lateral Agreement that will see stolen vehicle data exchanged between Canada, the US and Mexico.

#### **Presenters**

- Ms. Rosanna Di Paola, CIO, Public Safety Canada
- Superintendent Chris Kellett, CIO, Edmonton Police Service

#### **Moderator**

Superintendent Bill Moore, Halifax Regional Police, Co-Chair, Canadian Association of Chiefs of Police Interoperability Sub-Committee

**SESSION 21**

**11:00-11:45**

**Session** (*Ballroom*)

CITIG: Past, Present and Future

**Objective**

This session will provide a short review of the history of how the Canadian Interoperability Technology Interest Group was created and outline some of its major successes. Delegates will then hear high level plans for CITIG's future and what 2012 and beyond will bring.

**11:45-12:00**

**Closing Remarks** (*Ballroom*)

Superintendent Bill Moore, Halifax Regional Police, Co-Chair, Canadian Association of Chiefs of Police Interoperability Sub-Committee

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