

The Eleventh Canadian Public Safety
Interoperability Workshop
“Broadband and Beyond”

December 3 to 6, 2017 in Ottawa, ON



Le onzième atelier canadien sur
l'interopérabilité en matière
de sécurité publique

« Un avenir à large bande »

Le 3 au 6 décembre 2017
à Ottawa (Ontario)



@CITIG_Canada & #CITIG11

“Broadband and Beyond”

Sunday, December 3, 2017

17:00-19:00 Onsite Registration (*Ballroom Foyer*)

Monday, December 4, 2017

07:00 Onsite Registration (*Ballroom Foyer*)

07:00-18:30 Exhibit Show (*Ballroom C*)

07:00-18:30 PSCR User Interface/ User Experience (UI/UX) - Virtual Reality (VR)
Demonstration in Exhibit Area (*Ballroom C*)
PSCR's Scott Ledgerwood will be demonstrating how the PSCR is leveraging Virtual Reality tools for testing new first responder technologies. Stop by for a demonstration of the PSCR's VR environment.

07:00-08:30 **Breakfast** (*Exhibit Area*)

08:30-16:45 Plenary Sessions (*Ballroom A-B*)

08:30-09:00

Opening Remarks and Tri-Service Association Highlights

Join the representatives of the Canadian Association of Fire Chiefs (CAFC), Canadian Association of Chiefs of Police (CACP) and the Paramedics Chiefs of Canada (PCC) as they welcome delegates to our 11th annual workshop and provide an overview of how each association is working together to advance responder issues.

Presenters

- Chief Pierre Voisine, Board Member and Treasurer, Canadian Association of Fire Chiefs (CAFC)
- Deputy Chief (Ret.) William (Bill) Moore, O.O.M., Executive Director, Canadian Association of Chiefs of Police (CACP)
- Chief Randy Mellow, Peterborough County/City Paramedics, President, Paramedics Chiefs of Canada (PCC)

Moderator

Mr. Eric Torunski, Executive Director, CITIG

SESSION 1

09:00-09:45

Operation INTERSECT - A Case Study in Regional Interoperability

Objective

Operation INTERSECT is a Multi-jurisdictional, all-hazards emergency preparedness program within the National Capital Region (NCR). Designed to enhance emergency management and preparedness initiatives in the NCR, the program was launched in 2008, and is co-Chaired by the Ottawa Police Service, the Royal Canadian Mounted Police and City of Gatineau. This session will highlight many of the best practices and lessons learned during Operation INTERSECT's history.

Presenter

- Mr. Kevin G. Mason, Program Manager Operation INTERSECT, Ottawa Police Service

Moderator

Deputy Manager Jeff Brooks, Emergency Medical Services Department, The County of Lambton and Chair, CITIG

SESSION 2

09:45-10:30

Towards a Public Safety Broadband Network

Objective

The Government of Canada is engaging diverse stakeholders and producing evidence-based analysis on implementation models for a potential Public Safety Network (PSBN), which is a secure, high-speed wireless data communications network that can be used for emergency responders and public safety personnel. This presentation will update members on this work and seek feedback on implementation models for a potential PSBN.

Presenters

- Ms. Stéphanie Durand, Director General, Policy and Outreach Directorate, Emergency Management and Programs Branch, Public Safety Canada

- Mr. Martin Proulx, Planning and Standards, Spectrum and Information Technologies and Telecommunications, Innovation, Science and Economic Development Canada (ISED)
- Mr. Philip Dawe, Acting Director, Knowledge and Technology: Community Safety, Centre for Security Science (CSS), Defence Research and Development Canada

Moderator

Deputy Manager Jeff Brooks, Emergency Medical Services Department, The County of Lambton and Chair, CITIG

10:30-11:00 **Network Break** (*Exhibit Area*)

SESSION 3

11:00-11:15

PS-LTE - The Need is Now: A flexible framework for a collaborative future

Objective

Deputy Chief Duraiappah will present details regarding the recent announcement of the Halton Regional Police Service PS-LTE deployment, along with operational vision, goals, tools and areas of focus for the system. The Deputy Chief will also speak to an open collaborative framework for consideration by public safety agencies, as a potential flexible approach to deploying inter-operable PS-LTE systems.

Presenter

- Deputy Chief Nishan Duraiappah, M.O.M., Halton Regional Police Service

Moderator

Mr. Phil Crnko, General Manager, Ontario, Motorola Solutions Inc.

SESSION 4

11:15-12:00

Interoperable Public Safety Response Broadband Apps

Objective

By nature, applications that support critical public safety missions must have a higher level of reliability than consumer-grade applications. In all cases, public safety applications must satisfy stringent levels of security at the vetting stage and throughout their life cycle. In 2016, a study was initiated by the Government of Saskatchewan, the University of Regina, the Saskatchewan Interoperability Interest Group (with the help of the Canadian Advanced Technology Alliance and CITIG) and funded by the Canadian Safety and Security Program (CSSP) managed through Defence Research and Development Canada, Centre for Security Science.

This session will provide an overview of the progress made to date.

Presenters

- Dr. Yasser Morgan, PhD., Associate Professor, Founder of BRiC laboratories, University of Regina
- Mr. Daniel Charlebois, Defence Scientist, Centre for Security Science, Defence Research and Development Canada

Moderator

Superintendent Brendan Dodd, Windsor Police Service and Vice-Chair, CITIG

12:00-13:00 **Lunch** (*Exhibit Area*)

SESSION 5

13:00-13:15

CITIG 2017 National Awards for Public Safety Interoperability

Presenters

- Deputy Manager Jeff Brooks, Emergency Medical Services Department, The County of Lambton and Chair, CITIG
- Superintendent Brendan Dodd, Windsor Police Service and Vice-Chair, CITIG
- Assistant Deputy Chief (Ret.) Michael Sullivan, Ottawa Fire Services and Secretary, CITIG

SESSION 6

13:15-14:00

FirstNet Update - Exciting Times!

Objective

The communications network America's first responders fought for is on its way. In just a few months, FirstNet and AT&T will have a clear line of sight to deliver the only technology platform built for those whose job it is to keep our communities safe and secure: the brave men and women of public safety. This is an exciting time for everyone involved in setting the course for the only network dedicated to public safety.

Join us for a general update on where the network stands, and what we can expect in the very near future.

Presenters

- Mr. Christopher Algieri, Federal Consultation Lead, First Responder Network Authority

Moderator

Superintendent Brendan Dodd, Windsor Police Service and Vice-Chair, CITIG

SESSION 7

14:00-14:30

Next Generation 9-1-1 (NG9-1-1)

Objective

As most know, the Canadian Radio-television and Telecommunications Commission (CRTC) regulates the telephone and mobile wireless companies that carry 9-1-1 calls to emergency call centres. With NG9-1-1 services, Canadians could eventually stream video from an emergency incident, send photos of accident damage or a fleeing suspect, and send personal medical information, including accessibility needs, which could greatly aid emergency responders.

This session will focus on the steps the CRTC is taking to encourage stakeholders to collaborate to prepare networks so that they are capable of carrying NG9-1-1 traffic to the emergency call centres.

Presenter

- Ms. Christianne Laizner, Vice-Chair, Telecommunications, CRTC

Moderator

Superintendent Brendan Dodd, Windsor Police Service and Vice-Chair, CITIG

SESSION 8

14:30-14:45

BRiC in Brief

Objective

The Bridging Research and Interoperability Centre (BRIC) is entering a new phase: BRiC-Nxt-Gen steps it up a notch, and this brief overview will provide a status update on BRiC and offer a sneak peek at what participants can expect in Tuesday's BRiC-Nxt-Gen Breakout Session.

Presenter

- Dr. Yasser Morgan, PhD., Associate Professor, Founder of BRiC laboratories, University of Regina

Moderator

Assistant Deputy Chief (Ret.) Michael Sullivan, Ottawa Fire Services and Secretary, CITIG

14:45-14:50

Breakout Instructions

14:50-15:20 **Network Break** (*Exhibit Area*)

SESSION 9

15:20-16:45

Breakout Sessions (A - D)

Provincial Interoperability Updates and Workshops

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

Breakout Session A *(Richelieu)*

Atlantic/ Quebec Region

Facilitators

- Ms. Diane Pelletier, Director, NB 911 Bureau, Department of Justice and Public Safety
- Mr. Bruce Grandy, Manager Radio Communications, New Brunswick Department of Transportation & Infrastructure

Breakout Session B *(Ballroom A-B)*

Ontario Region

Facilitators

- Deputy Manager Jeff Brooks, Emergency Medical Services Department, The County of Lambton and Chair, CITIG
- Mr. Kevin Bull, Provincial Interoperability Officer, Office of the Fire Marshal and Emergency Management (OFMEM), Ministry of Community Safety & Correctional Services

Breakout Session C *(Frontenac)*

Prairies and Territories Region

Facilitators

- Mr. John Leitch, M.O.M., Government of Saskatchewan, Client Services
- Mr. Howard Georgeson, PPSTN General Manager, Saskatchewan Interoperability Development Office

Breakout Session D *(Joliet)*

British Columbia Region

Facilitators

- Mr. Mike Webb, VP Technology Services, E-Comm Emergency Communications for British Columbia Inc.
- Mr. Gord Horth, General Manager, CREST

16:45-18:30 **Exhibitors' Reception** (*Exhibit Area*)

Tuesday, December 5, 2017

07:00-15:45 **Exhibit Show** (*Ballroom C*)

07:00-15:45 **PSCR User Interface/ User Experience (UI/UX) - Virtual Reality (VR) Demonstration in Exhibit Area** (*Ballroom C*)

PSCR's Scott Ledgerwood will be demonstrating how the PSCR is leveraging Virtual Reality tools for testing new first responder technologies. Stop by for a demonstration of the PSCR's VR environment.

07:00-08:30 **Breakfast** (*Exhibit Area*)

08:30-16:45 **Plenary Sessions** (*Ballroom A-B*)

08:30-08:45

Opening Remarks & Recap of Breakout Sessions

- Superintendent Brendan Dodd, Windsor Police Service and Vice-Chair, CITIG

SESSION 10

08:45-09:30

CAUSE 5 - The Results are in!

Objective

The Canada-U.S. Enhanced Resiliency Experiment (CAUSE) is an ongoing program in support of the Beyond the Border Action Plan lead by the U.S. Department of Homeland Security Science and Technology Directorate First Responders Group (DHS S&T FRG) and the Defence Research and Development Canada's Centre for Security Science (DRDC CSS). The series of experiments tests and evaluates technologies and processes that enable cross-border information sharing. The fifth in the series, CAUSE V, took place in November 2017 in the Pacific Northwest (border between Washington and British Columbia) and focused on a volcanic scenario. This session will look at the preliminary results.

Presenter

- Mr. Joe Fournier, Portfolio Manager, Wireless Technologies, Defence Research and Development Canada's Centre for Security Science

Moderator

Superintendent Brendan Dodd, Windsor Police Service and Vice-Chair, CITIG

SESSION 11
09:30-10:15

Introduction to PSCR

Objective

The Public Safety Communications Research (PSCR) program serves as an objective technical advisor and laboratory to FirstNet, the Department of Homeland Security, and public safety to accelerate the adoption and implementation of the most critical public safety communication standards and technologies. Join us as Dereck Orr provides the history of the PSCR, an overview of the current Innovation Accelerator Program, review current funding opportunities, and discuss ways the community can get involved with the PSCR.

Presenter

- Mr. Dereck Orr, Division Chief, PSCR

Moderator

Superintendent Brendan Dodd, Windsor Police Service and Vice-Chair, CITIG

SESSION 12
10:15-10:30

“The Pitch” and Breakout Instructions

Objective

Hear a brief overview of your breakout session choices to help you decide!

Moderator

Superintendent Brendan Dodd, Windsor Police Service and Vice-Chair, CITIG

10:30-11:00 **Network Break** (*Exhibit Area*)

SESSION 13
11:00-12:00

Breakout Sessions (1 - 3)

Breakout Session 1 (*Richelieu*)

Common Operating Picture Case Study - Every Call, Every Day

Objective

Perth County made mapping road obstructions for responders a priority. Solving this every call, everyday communications challenge has resulted in shared situational awareness between responders, emergency managers, public works and other regional officials. Perth

County's CEMC Dave Colvin, and other panel members, will present the road to a regional common operating picture.

Presenters/ Moderators

- Mr. Dave Colvin, CEMC, Perth County
- Chief Mike Nolan, Renfrew County Paramedic Service
- Inspector Paul Murray, CP Rail Police
- Mr. Doug Allport, Transnomis Solutions

Breakout Session 2 *(Ballroom A-B)*

PSCR Deep Dive - LBS, ICAM and MCV, oh my!

Objective

Our esteemed panel of PSCR representatives will be discussing:

- Location-based services (LBS) - identified as one of three key areas for R&D investment by first responders, government officials, industry leaders, and academia who participated in the strategic planning effort initiated by PSCR in 2013.
- Security Identity Credential and Access Management (ICAM) - specifically the work the PSCR has been doing in relation to ICAM.
- Mission Critical Voice (MCV) and the ability to provide MCV over broadband networks.

Presenters

- Mr. Jeb Benson, PSCR
- Mr. John Beltz, PSCR
- Mr. Donald Bradshaw, PSCR

Moderator

Mr. Dereck Orr, Division Chief, PSCR

Breakout Session 3 *(Frontenac)*

BRiC-Nxt-Gen and What You Need to Know!

Objective

Over the past three years the BRiC has successfully advanced public safety solutions with initial government funding from the Western Economic Diversification (WED) and a leadership team consisting of the Government of Saskatchewan, the University of Regina, the RCMP and many others. The strong collaborative team has undertaken a series of initial studies, exercises, including continuous research on securing infrastructure end points, tamper detection, vehicle make and model detection, policy controls and representation, voice analytics, interoperability frameworks, analytics and development of required public policy. Now BRiC is expanding to BRiC-Nxt-Gen, in this session we investigate how BRiC could influence the way public safety is evolving.

Presenters

- Mr. Chris Pogue, Vice President, General Dynamics Mission Systems Canada
- Assistant Deputy Chief (Ret.) Michael Sullivan, Ottawa Fire Services and Secretary, CITIG

Moderator

Dr. Yasser Morgan, PhD., Associate Professor, Founder of BRiC laboratories, University of Regina

12:00-13:00 **Lunch** (*Exhibit Area*)

SESSION 14

13:00-13:40

Keynote Address - From Policing to Politics

Objective

Having served Canadians for almost 31 years as a police officer, then Chief Vern White was appointed to the Senate February 20, 2012. In his keynote address, now Senator Vern White will touch on his experience in three provinces and three territories (for three different police agencies) and the issues most important to him today as Senator.

Presenter

- The Honourable Vernon White, Senator

Moderator

Assistant Deputy Chief (Ret.) Michael Sullivan, Ottawa Fire Services and Secretary, CITIG

SESSION 15

13:40-14:20

Update on Canada-United States Communications Interoperability Working Group and Joint Efforts

Objective

Communications interoperability takes on added complexity in border regions, where technical, operational, and policy differences produce unique challenges for responders along the Canada-United States border. The objective of the Canada-US Communications Interoperability Working Group (CANUS CIWG) is to harmonize communications interoperability between the two countries. The CANUS CIWG has identified 5 strategic goals that align with both Canada and the United States' national communications interoperability strategies. This presentation will highlight key achievements in 2017 and touch on planned activities/priorities for 2018 as they pertain to those strategic goals.

Presenters

- Ms. Therese Coady, Manager, Response and Interoperability, Public Safety Canada
- Mr. Ted Lawson, Office of Emergency Communications (OEC), Department of Homeland Security
- Mr. Martin Daigle, Senior Engineer, Engineering, Planning and Standards Branch, Innovation, Science and Economic Development Canada
- Mr. Brian Marengo, Electronics Engineer, Public Safety and Homeland Security Bureau, Federal Communications Commission

Moderator

Assistant Deputy Chief (Ret.) Michael Sullivan, Ottawa Fire Services and Secretary, CITIG

SESSION 16

14:20-15:00

FirstNet and NG911: A Powerful Combination

Objective

What will FirstNet mean to public safety's existing 911 communications systems? What are the technical, operational, security and financial impacts associated with FirstNet's introduction into the public-safety-communications arena in the near term? Hear from FirstNet's NG9-1-1 subject matter expert on how the two halves of public safety request and response will integrate.

Presenter

- Mr. William Hinkle, Senior 9-1-1 Advisor, FirstNet

Moderator

Assistant Deputy Chief (Ret.) Michael Sullivan, Ottawa Fire Services and Secretary, CITIG

SESSION 17

15:00-15:15

"The Pitch" and Breakout Instructions

Objective

Hear a brief overview of your breakout session choices to help you decide!

Moderator

Assistant Deputy Chief (Ret.) Michael Sullivan, Ottawa Fire Services and Secretary, CITIG

15:15-15:45 **Network Break** (*Exhibit Area*)

SESSION 18
15:45-16:45

Breakout Sessions (4 - 6)

Breakout Session 4 (*Frontenac*)
Overcoming Regional Interoperability Challenges

Objective

There is a vast array of smaller, but incredibly meaningful, interoperability projects being completed across the province of Ontario. Many of them are funded by the Canadian Safety and Security Program (CSSP), a federally-funded program led by Defence Research and Development Canada's Centre for Security Science (DRDC CSS), in partnership with Public Safety Canada. Join our moderator and panelists for an insider's look at some of these innovative projects and learn about the best practices that you can take back to your jurisdiction.

Presenters

- Chief Kent Padfield, Kincardine Fire & Emergency Services, Rural Interoperability Optimization (RIO) Project
- Chief Phil Eagleson, Saugeen Shores Fire Department, Rural Interoperability Optimization (RIO) Project
- Deputy Manager Jeff Brooks, Lambton County Emergency Medical Services Department, Situational Awareness of Vulnerable Population in a Crisis or Evacuation (SAVE) Project
- Sergeant Al Melvin, Kingston Police Communications Supervisor, Kingston Interoperability Safety and Security (KISS) Project

Moderator

Mr. Chris Davis, Lansdowne Technologies Inc.

Breakout Session 5 (*Richelieu*)
Social Media for Emergency Management - A "Hands-on" Session

Objective

How resilient is your social media response during an emergency? During this breakout, our social media expert will walk you through a common scenario and discuss the "dos" and "don'ts". Bring your laptop or smartphone - this will be a very interactive session.

Presenter/Moderator

- Ms. Christine Townsend, MusterPoint

Breakout Session 6 (*Ballroom A-B*)
PSBN USE Cases and Associated User Requirements

Objective

In order to determine the technical and operational requirements of the Public Safety Broadband Network in Canada, it is imperative to understand the requirements of users of the PSBN. As one of the most popular breakout sessions at CITIG 10, Joe Fournier will be back with Stephan Meyer to provide an update on the user requirement efforts in the past year and how this work relates to the overall technical requirements of the PSBN.

Presenters

- Mr. Stephan Meyer, Project Manager, Defence Research and Development Canada's Centre for Security Science
- Mr. Joe Fournier, Portfolio Manager, Wireless Technologies, Defence Research and Development Canada's Centre for Security Science

Moderator

Assistant Deputy Chief (Ret.) Michael Sullivan, Ottawa Fire Services and Secretary, CITIG

Wednesday, December 6, 2017

07:00-08:30 **Breakfast** (*Ballroom Foyer*)

08:30-12:00 **Plenary Sessions** (*Ballroom A-B*)

08:30-08:45

Opening Remarks & Recap of Breakout Sessions

- Assistant Deputy Chief (Ret.) Michael Sullivan, Ottawa Fire Services and Secretary, CITIG

SESSION 19

08:45-09:30

Preparing for an Emergency: Communication and Collaboration

Objective

When it comes to communications, there are efficient and effective ways to prepare for an emergency. MusterPoint founder Christine Townsend will explore some key elements, like establishing an effective social media hub, creating and running a hub for an operational response and using social media to affect the outcome of an operational response to an incident, pre-planned event, disaster. Join us as Christine goes through some best practice tips to ensure key points are covered should the worst happen.

Presenter

- Ms. Christine Townsend, MusterPoint

Moderator

Assistant Deputy Chief (Ret.) Michael Sullivan, Ottawa Fire Services and Secretary, CITIG

SESSION 20

09:30-10:15

Expanding the National Public Alerting System (NPAS)

Objective

The National Public Alerting System (NPAS) is a public-private initiative which, since 2010, has provided federal, provincial and territorial (F/P/T) governments throughout Canada with a standardized, all-hazards alerting capability to warn the public of imminent or unfolding threats to life through such means as radio, cable television, satellite television, email and Short Message Service (SMS) text services. Since 2009, Pelmorex Communications Inc., owner of The Weather Network and MétéoMédia television channels, has been designated by the Canadian Radio-television and Telecommunications Commission (CRTC) to act as Canada's aggregator and disseminator of emergency public alert messages. F/P/T governments have worked in partnership with Pelmorex and the broadcasting and telecommunications sectors to develop an effective NPAS. In April 2017, following a public consultation, and in consideration of the results of a federal government-led wireless public alerting project, the CRTC directed wireless service providers to implement NPAS on their networks by April 2018. This direction makes it mandatory for Canada's wireless service providers to distribute emergency public alerts to Canadians on their wireless devices (e.g. smart phones). This session will speak to what has been happening on the road to implementing the expansion and modernization of public alerting in Canada.

Presenters

- Mr. Tim Trytten, Alberta Emergency Alert/GIS Coordinator, Alberta Emergency Management Agency
- Ms. Stéphanie Durand, Director General, Policy and Outreach Directorate, Emergency Management and Programs Branch, Public Safety Canada

Moderator

Assistant Deputy Chief (Ret.) Michael Sullivan, Ottawa Fire Services and Secretary, CITIG

10:15-10:30 **Network Break** (*Ballroom Foyer*)

SESSION 21

10:30-11:45

Town Hall Session: Working with Industry to Achieve Success

Objective

Since CITIG was first created in 2007, it has been proud to work closely with a wide range of local, regional, national and international industry partners and associations. This year's Town

Hall Session is recognizing the importance of our relationship with industry by inviting our Platinum Sponsors to join the CITIG Board as active participants. The session is designed to help explore new and innovative ways that CITIG can work with industry to help us fulfil our mission of “improving Canadian public safety interoperability at home and abroad through collaborative efforts, innovation and leadership.”

Panelists

- Deputy Manager Jeff Brooks, Emergency Medical Services Department, The County of Lambton and Chair, CITIG
- Superintendent Brendan Dodd, Windsor Police Service and Vice-Chair, CITIG
- Assistant Deputy Chief (Ret.) Michael Sullivan, Ottawa Fire Services and Secretary, CITIG
- Mr. Matthew Swarney, Director, Government Affairs, Motorola Solutions Canada Inc.

Facilitator

Mr. Chris Davis, Lansdowne Technologies Inc.

11:45-12:00

Closing Remarks/ A Look Ahead

- Deputy Manager Jeff Brooks, Emergency Medical Services Department, The County of Lambton and Chair, CITIG