

County of Frontenac Paramedic Services



IPTS (*Integrated Patient Transport System*)



Component & Design Beta Trial Presentation
May 10, 2016

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Who We Are

- Service Kingston & Frontenac County
- 19,000 plus calls per year (code 3/4)
- 132 active-duty Paramedics
- 7 stations over 3996 sq Km
- Population of 150,000

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What We Did

- Beta trial staffed by 24 specially trained Paramedics
- Operated between Nov. 14, 2015 and Feb. 16, 2016
- Beta vehicle responded from our highest call volume station – 9,740 calls (code 3/4)
- Immediate electronic feedback

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Goals

- Greening Initiative
- Improved Medic safety
 - Power cot
 - Medic secure with equipment still accessible
- Field trial the iNjTraxx and SafePak system (Ferno)
- Work with the global chassis platform (Crestline)

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The Trial Vehicle



Global chassis platforms

Lower vehicle curb weights

Quieter

Lower emissions

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The Trial Vehicle - Features



Access to supplies while seated and restrained – seat belt monitoring

Infection control and clean-ability

Storage modularity as “mounts” may be repositioned

Initially a center mount with a fixed primary seat

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SafePak Mount

Quick release bracket for SafePak Storage

Society of Automotive Engineers (SAE)
compliant – crash stability

May be repositioned along the track

Designed to hold 1 regular size SafePak or 2
small size SafePaks

SafePaks are crash stable when stored in the
open or closed position



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Regular Size SafePak



Pouches are interchangeable
Pouches auto close & latch
Labels are interchangeable
Easy to clean / decontamination
Inventory control / prepackaged



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- Defibrillator may be wall or surface mounted



- Equipment is mounted both for security and for modularity



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Trial

- Medics completed pre and post trial surveys
- Medic Feedback was immediate via iPad video and picture submissions
- Face to Face interviews were also conducted during the trial
- Any H&S issues were addressed immediately by the manufacturers
- Only trained staff worked the vehicle

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Results Summary (Chassis)

- Ride and visibility was greatly improved
- The current chassis was too light allowing for only 770lbs (including 2 medics)
- Power seats are a must on both sides
- Center mount had to be moved – knee room
- Slider seat required – Medic safety

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Results Summary (Patient Comp.)

- Configurability not an option for front-line use
- Concern regarding items sticking out from the walls (plan for stay-away zones)
- Pouches were accepted and modifications identified
- Audible safety reminders were not appreciated – distracting, belittling
- Culture change is a large obstacle

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Ambulance of the Future



Seating Technology vs. Culture Change

Giving up the Squad Bench is a very difficult step-change to accept

Studies* indicate that Paramedics wear seatbelts 3% of the time, but remain stationary 62% of the time

**University of Calgary/Alberta Health Services study in 2009*

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Closing Thoughts



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Questions?

Chris McBain

Superintendent – Operations
Frontenac Paramedic Services

613-389-7790 ext. 412

cmcbain@frontenacounty.ca