Driving with OSGi Technology: OSGi Frameworks in the Future Telematics Ecosystem

Paul Wheaton
Director, In-Vehicle Computing
In-vehicle computing trends…

- Increasingly sophisticated
- Increasingly integrated
- Separation of HW from SW
- Consolidation of ECU’s
- Following (or at least looking to) traditional IT constructs to tackle some of the issues
Industry Issues...

- In-vehicle computing infrastructure needs to be:
  - Updated periodically
  - Communicate bi-directionally with back end systems in a secure fashion

Yet....

- Today’s in-vehicle computing architecture highly decentralized and tuned for efficient processing
- Design process has not supported the development of an efficient, cost-effective computing infrastructure
How does the OSGi paradigm further efforts?

• The obvious…
  – Provides a standardized framework for deployment, registration and operation of services (any services) in-vehicle

• The not so obvious…
  – Secure gateway for integration with industrial-strength backend systems
Is there an even bigger opportunity?

- Many only looking at OSGi for “infotainment” services
- ROI today requires a broader applicability of the framework
- Use it to run:
  - Maintenance software payloads
  - Diagnostic payloads
  - Notifications/communications
  - Etc.