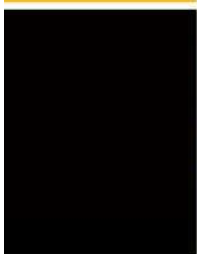


SMART 2010 Workshop



Claude Aboujaoude
Electronics & Machine
Systems Division



Mining safely. Mining more. Mining right.

- We support the initiative
- We are a member of other initiatives as well, e.g. CRC mining and ACARP

VIMS data:

- Available since mid 90s
- Available via RS-232 port (Telemetry)
- Published protocol via NDA with mining customer
- No connectivity fee for current VIMS data

Broad Product Suite

- MineStar Fleet Management and Health
- CAES for Dozers, Shovels and Loaders
- AQUILA systems for drills and draglines
- VIMSpC
- CIODS (Cat Integrated Object Detection System)

Standards and Interfaces

- Support connectivity to broadband networks (e.g. Customer provided and supported network that meets minimum specifications)
- Provide a bi-directional, TCP-IP based real-time, 3rd Party Data Exchange interface to High Precision Guidance systems (CAES and AQUILA)

- Larger representation of stakeholders
- Functional / Performance expectation of Proprietary versus Open Standard
- As an OEM with global footprint, need to consider supportability of machines, technologies and associated solutions
- Who is the system integrator – safety standards and compliance issues