Reliability at work

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Agenda

1. Introduction and Agenda
2. Bucyrus 2006
3. Bucyrus 2010
4. Surface Connectivity Technologies
5. Goals going Forward
6. Summary

Bucyrus 2006

DRAGLINES

DRILLS

SHOVELS

Bucyrus 2010

DRAGLINES

DRILLS

SHOVELS

MINING TRUCKS

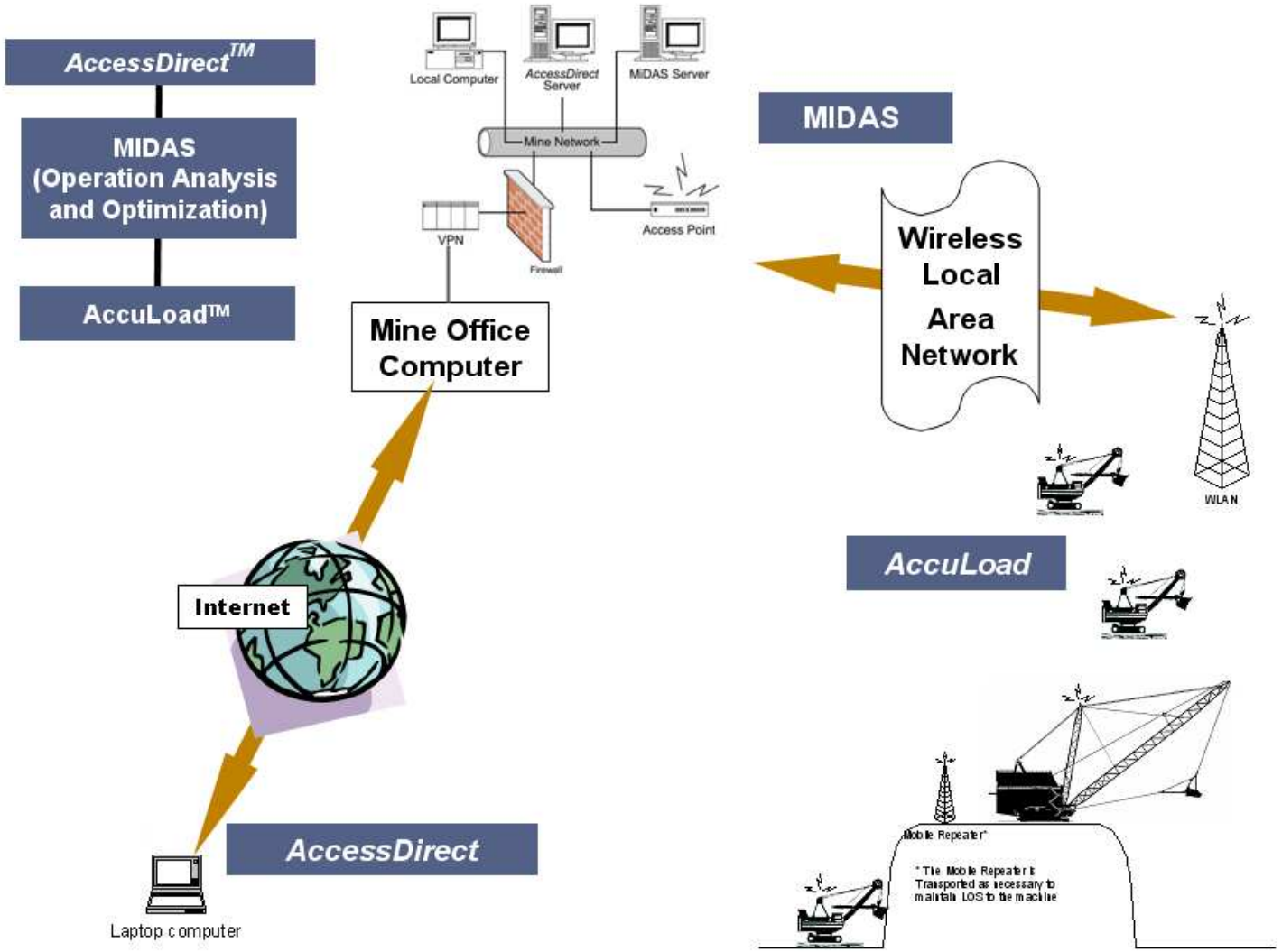
HIGHWALL MINER

ROOM & PILLAR MINING

LONGWALL MINING

BELT SYSTEMS

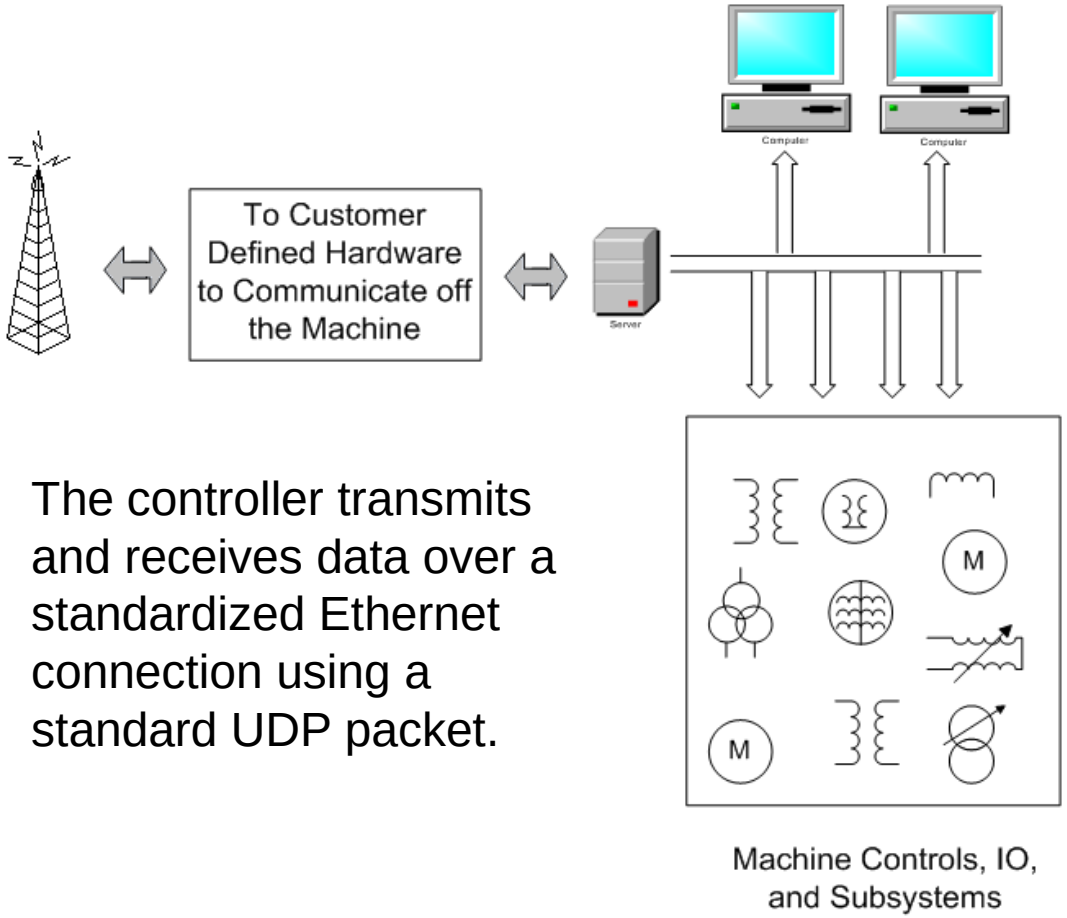
Surface Connectivity Technologies



Bucyrus Surface Data Access History

- RKN (Remote Knowledge Network) - late 1990's
  - Fault Logging exports to Excel
- Access Direct - 2001
  - Remote access to machine
  - Worldwide Access
- Midas – 2003
- Accuload Production Monitoring (Rope Shovels)
- Midas 2.0 - 2010

Connecting to the Machine



The controller transmits and receives data over a standardized Ethernet connection using a standard UDP packet.

Goals Going Forward

- Unify the data collection across the various products.
- Resolve challenges with remote access through mine firewalls.
- Common access throughout the world.
- Enhance data collection for better productivity.
- Expand data collection for maintenance alerts.
- Maintain flexibility with the installed customer hardware.

Summary

- The information age has elevated the importance of data collection.
- Bucyrus has evolved data collection over the past decade.
- The use of standard data packet transmission allows customer flexibility.
- Enhanced and expanded data collection is being researched.
- A unified Bucyrus data collection system is our vision.

Thank you!