

## CASE STUDY

# Remote Download

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### Customer Benefits

- ✓ Improved safety
- ✓ Optimized engine swapouts
- ✓ Reduced breakdowns
- ✓ Extended life of healthy engines
- ✓ 400+ man-hour saved per year
- ✓ On-demand data
- ✓ No more production stoppages
- ✓ Improved supply chain management

### Extending Engine Life with Timely Reliability Data

A mining operator was planning to schedule engine changes for their haulage fleet as they approached the end of their predicted useful life. To efficiently prioritize change-outs, reliability engineers required access to machine health metrics and contracted 3D-P to develop a custom software application for on-demand remote download.

The reliability engineers now had timely access to data and could assess which engines were in need of immediate replacement and which could remain in service. This prevented inopportune breakdowns while extending the service life of engines that were still healthy. It also allowed the operator's supply chain management team to identify the pending need for spare parts and ensure their availability prior to failure.

### Flexible Computing With The Intelligent Endpoint™

Prior to contracting 3D-P, reliability engineers had to halt each haul truck and climb aboard to collect machine health metrics. Consequently, data collection occurred infrequently as this was a time consuming process and costly due to the loss of production.

Because the customer was already relying on the Intelligent Endpoint to enable on-machine communications, it was possible for 3D-P to develop an application which created a virtual serial connection from the office for remote download of Komatsu® VHMS, Cummins® CENSE™, and GE Invertex™ data.

Now, reliability engineers could collect data whenever they required it without the need to stop production or leave their office. Not only did this provide them with more timely and better data to help prioritize engine swap-outs, but it also improved safety, increased productivity, and saved man-hours.

### Ongoing Return On Investment

By investing in Intelligent Endpoints, the customer could deploy a custom solution that drove better decision making while saving time and money.

This simple but effective solution handily demonstrates the strong ROI provided by deploying 3D-P's Intelligent Endpoint product line for on-machine networking and wireless communications.

