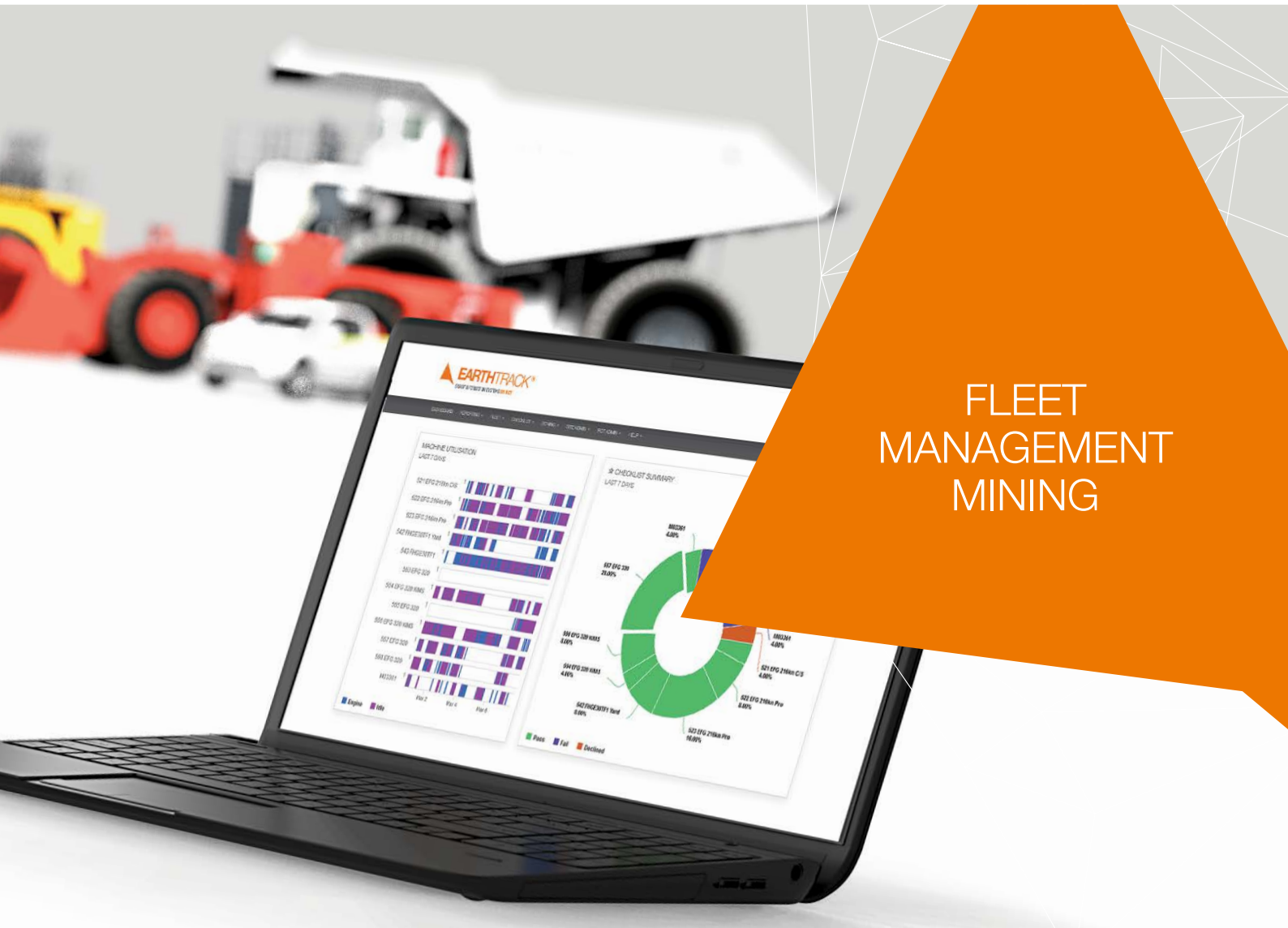


EMPOWER FLEET USERS TO MAKE INFORMED DECISIONS



FLEET
MANAGEMENT
MINING

OVERVIEW

EarthTrack® Fleet Management solutions are designed deliver relevant, accurate machine data that will empower fleet users and suppliers to make informed decisions when managing their fleet - ensuring that all machines are operating at peak performance.

EarthTrack® Fleet Management solutions are available for all machine types and brands and will capture data to fully assess machine and operator performance in real-time to present intelligent reports that improve fleet productivity.

SURFACE

EarthTrack® Fleet Management solutions are available to deliver machine and operator performance data that drives business improvements without adding excessive infrastructure and costs. Payload data, machine operation data and operator performance are all key factors in achieving a bottom line profit.

EarthTrack® seamlessly captures the relevant information needed to better monitor and manage fleets.

This solution is available in different packages; all of which deliver measurable benefits to fleet owners and users.

FEATURES

- Configurable reports
- Operator access
- Live alerts
- Impact monitoring
- Payload information
- Pre-start checklist
- Email reports
- Data live on web
- Interactive dashboards
- Over the air updates
- Excess idle monitoring

CUSTOMER ADVANTAGES

- Greater efficiency
- Enhanced security
- Reduced costs
- Easy to use
- Improved safety
- Proven customer satisfaction

FUTURE FEATURES

- Integration of payload and fleet data
- Parameters from machine OEM system data (CAN)

PACKAGES

STANDARD

The **Standard** offer covers basic machine utilisation with four digital inputs that may be tagged or labelled within the website to log whatever the end user may require. The standard annuity package will also have a basic level of reporting and alerts available. It is designed to deliver machine utilisation data and reports across individual machines and fleets. The four configurable inputs allow the user to expand the data collected to report from production or consumption type inputs.

PREMIUM

The **Premium** offer covers all features of **Standard** and **Intermediate** but has the added major feature of machine out of service reporting. This feature delivers data that includes machine availability, planned and unplanned maintenance. Unplanned maintenance can also be broken down into specific areas that can include, damage or failures. Machine CAN data (TBA) is also included in the Premium package. The CAN interface will add to the website analogue data to include fuel consumption, machine operating conditions and status.

INTERMEDIATE

The **Intermediate** offer covers all the **Standard** features and more. It expands to cover pre-start checklists, driver sign on/access, impact monitoring, excess idle reporting and/or shutdown and licence expiry management. The reports available within the Intermediate annuity package will also cover the extra information collected. Driver licence management and the electronic pre-start checklist are key features within the Intermediate package that expands the system to machine and operational reporting.





COMPARISON TABLE

Features	Standard	Intermediate	PREMIUM
Prestart Checklist		✓	✓
Operator Access		✓	✓
Machine Utilisation Reports	✓	✓	✓
SMU Hours	✓	✓	✓
Traction Monitoring	✓	✓	✓
Excess Idle Reports	✓	✓	✓
Excess Idle Alerts	✓	✓	✓
Impact Reports		✓	✓
Impact Alerts		✓	✓
Licence Management		✓	✓
Permit/Induction Management		✓	✓
4 x Configurable Inputs	✓	✓	✓
Excess Idle Shutdown		✓	✓
Critical Impact Output		✓	✓
SMS Messaging		✓	✓
Message of the Day		✓	✓
Idle Timer Status Reporting			✓
Out of Service Reporting			✓
Payload Monitoring (FUTURE FEATURE)			TBA
Machine Data (FUTURE FEATURE)			TBA

SURFACE

PAYLOAD

The Payload Management solution has been servicing surface mining for the past 20 years. This solution delivers direct feedback to the loading machine operator empowering them to maintain correct loading practices to achieve optimum performance which has improved efficiency by up to 13%.

While the Payload Management solution has always displayed the information, improvements now allow the capture of critical Payload information. This information can be downloaded and then entered into onsite reporting programs to produce production information. Total weights, average weights and number of loads across all the fleet are all now available with the EarthTrack® Payload Logging solution.

**ALL PAYLOAD WEIGHTS
DISPLAYED & STORED**

**PAYLOAD STORED
UNDER FLEET NUMBER**

**AVERAGE LOADS
PER TRUCK**

**AVERAGE BUCKET WEIGHT
PER LOADER**

**NUMBER OF LOADS
PER TRUCK AND LOADER**

**TOTAL DIRT
MOVED BY TRUCK**

**TOTAL DIRT
MOVED BY LOADER**

**TOTAL DIRT
MOVED BY FLEET**



UNDERGROUND

The EarthTrack® Fleet Management solution offers all fleet owners a comprehensive fleet management tool. This solution is available for all machine types and brands across all applications from

the simplest application to complex production reporting - the EarthTrack® Fleet Management solution will suit.

FEATURES

- Configurable reports
- Operator access
- Live alerts
- Impact monitoring
- Pre-start checklist
- Email reports
- Data live on web
- Interactive dashboards
- Excess idle monitoring
- Machine parameters updated remotely

CUSTOMER ADVANTAGES

- Greater efficiency
- Enhanced security
- Reduced costs
- Easy to use
- Improved safety
- Proven customer satisfaction

PACKAGES

STANDARD

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INTERMEDIATE

The **Intermediate** offer covers all the **Standard** features and more. It expands to cover pre-start checklists, driver sign on/access, impact monitoring, excess idle reporting and/or shutdown and licence expiry management. The reports available within the Intermediate annuity package will also cover the extra information collected. Driver licence management and the electronic pre-start checklist are key features within the Intermediate package that expands the system to machine and operational reporting.



EXAMPLE OF CUSTOMISED MACHINE PACKAGES

GUIDANCE LOADER AND TRUCK

The ControlMaster® Guidance system for underground Loaders now includes the feature to capture stored and report Guidance machine information.

The system can be stand alone or incorporated into a full Fleet Management solution.

Guidance and Remote utilisation reports can be displayed on the EarthTrack® Website.

All Guidance data is support by the Premium package.

SPECIFIC MACHINE PACKAGES

Specific packages can be designed to assist in deliver machine operating efficiencies.

Configurable inputs and machine parameters allow all customers to specify what information they want to report.

DRILL PERCUSSION

A machine specific package designed to assist in down-time related to drifter failure is also available.

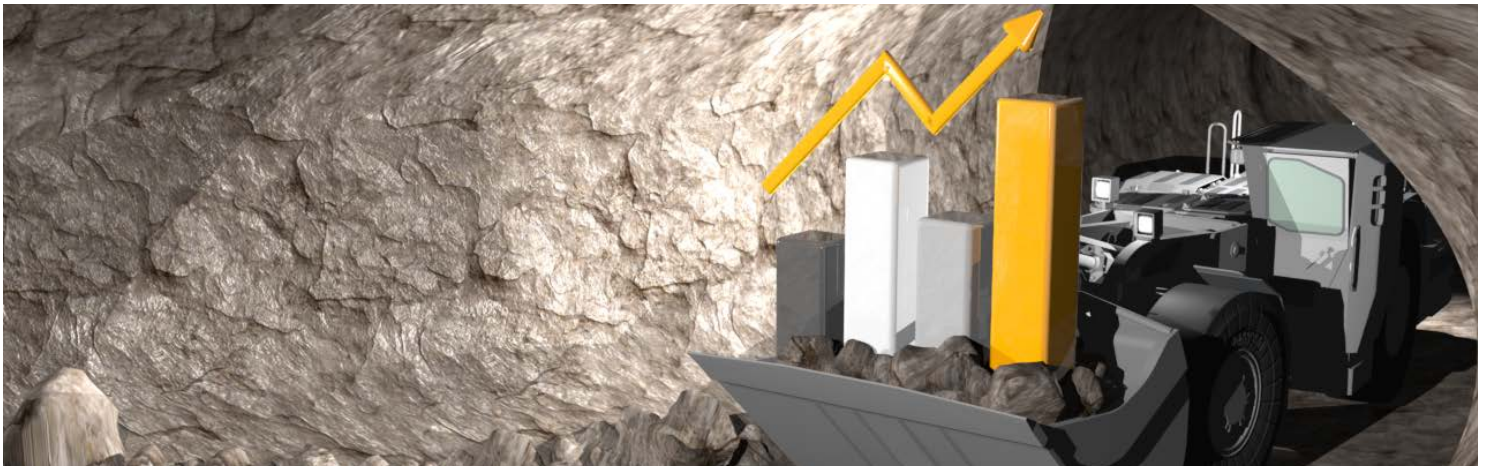
This package removes the need to manually record drifter, power pack and machine hours, allowing for a more accurate maintenance planning schedule.

The Drill Percussion package also covers all of the features included as part of the drill impact monitoring offer.

UNDERGROUND

COMPARISON TABLE

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SMU Hours	✓	✓	✓
Traction Monitoring	✓	✓	✓
Excess Idle Reports	✓	✓	✓
Excess Idle Alerts	✓	✓	✓
Impact Reports		✓	✓
Impact Alerts		✓	✓
Licence Management		✓	✓
Permit/induction Management		✓	✓
4 x Configurable Inputs	✓	✓	✓
Excess Idle Shutdown		✓	✓
Critical Impact Output		✓	✓
SMS Messaging		✓	✓
Message of the Day		✓	✓
Idle Timer Status Reporting			✓
Out of Service Reporting			✓
Machine Data (CAN)			TBA
GPS Zoning Dual Speed		OPTIONAL	







Discover more: rct-global.com

sales@rct-global.com

AUSTRALIA:	+61 (0) 8 9353 6577
AFRICA:	+27 (0) 83 292 4246
CANADA:	+1 705 590 4001
RUSSIA / CIS:	+7 (910) 411 11-74
SOUTH AMERICA:	+56 9 7387 2385
USA:	+1 801 938 9214

