

IREDES LHD/TRUCKS Equipment Profile

Cross Supplier standardized information for LHD's and other road transport machines

Motivation

LHD's and mine trucks are essential machines determining productivity of underground mines. Integrating these machines into a real time dispatch and process optimized mine operations requires access to operational data from these machines. Such information also is needed to plan and perform preventive and predictive maintenance in order to maximize machine availability.

In order to enable mining companies to minimize cost for interface development, IREDES standardizes the information so machines of different manufacture can be easily integrated into a mine's IT environment without specific development effort.

Purpose

The purpose of the IREDES LHD/TRUCKS equipment profile is to provide operational information required for work organization, dispatch and maintenance. The motivation for a standardized information exchange between LHDs/TRUCKS and central IT systems is to keep cost for interface development and for electronic reporting at bay while at the same time enabling the broad use of computerized machinery in order to enhance efficiency and accuracy of operations.

The purpose of the LHD/TRUCKS Equipment Profile is to define standardized:

- reporting about the driven distances
- the load carried (as far as electronically available on the machine)
- the number of cycles
- optional, potentially also site specific information

It is important that the IREDES LHD/TRUCKS profile precisely as any other IREDES equipment profile does not specify systems the machine producer has to use. It specifies the electronic interface between systems so the producer is completely free in choosing their on board systems.

Scope

The IREDES LHD Profile defines the content structure of the above mentioned profiles as XML schemas to be used for offline exchange using memory media as well as using WebServices for online transport.

The scope covers road based transport machines like LHD's and trucks used for transport of excavated rock.

Status

The IREDES LHD/TRUCKS profile is released. The current version is V1.4. A next major release is planned for 2015.

Questions? Want to participate in creating the standard? Not an IREDES member yet?

Get involved:
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