IREDES TRACKING Profile

Cross Supplier standardized formats for any kind of underground tracking

Motivation

Machines for the application of shotcrete are more and more equipped with electronic control systems and a clear trend is visible to automate these machines up to shotcrete robots. Information available from other machines and from tunnel scanners also provides a basis for automation and finally for an autonomous operation.

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 TRACKING Equipment Profile is to provide any kind of tracking and localization information from different sources in an unified format for universal further processing in the mine's IT systems without the need of individual interface programming.

The TRACKING Equipment Profile defines standardized information formats for:
- The location of an object, person or asset in the mine (in IREDES coordinate system format)
- The type of object, person or asset reported
- The time stamp the location information was generated
- additional optional information if required

It is important that the IREDES TRACKING profile precisely as any other IREDES equipment profile does not specify systems the producers have to use. IREDES specifies the electronic interface between systems so producers and mines are completely free in choosing their individual systems, as long as they provides IREDES interfaces.

Scope

The IREDES TRACKING Profile definitions are set up as XML schemas, which can be used for any kind of underground tracking purposes. It uses WebServices for communication.

Status

The IREDES TRACKING Profile is released.

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

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