

## **IREDES Drill Rigs Equipment Profile**

### Cross Supplier standardized information from and to Drill Rigs

#### **Motivation**

To enhance accuracy of tunnelling and mining operations and to save cost by reduced overbreak, computerized Drill Rigs are used today. These Drill Rigs often are produced by different manufacturers and the planning is made by different CAD or tunnel planning IT systems.

In most operations, also the rock conditions have to be logged for documentation reasons, especially in commercial tunneling. Related analysis software may be simplified by using a standardized information exchange.

Furthermore, electronic information from the drill rigs helps to improve accuracy and cost efficiency of downstream operations like the rock condition specific application of explosives for blasting.

#### **Purpose**

The motivation for a standardized information exchange between Drill Rigs 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 IREDES Drill Rigs Equipment Profile is to define standardized:

- electronics Drill Plans to be used by any kind of rig.
- electronic shift- or daily reports (*"How much work has to be performed during a period"*)
- electronic quality reports (*"How accurate were the holes placed and which problems occurred during the round"*)
- drilling reports per hole (*"Measurement-While-Drilling"*)

It is important that the IREDES Drill Rigs Profile 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 Drill Rigs 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 IREDES Drill Rigs Profile covers both tunneling and production drill rigs as well as underground and surface rigs. Also bolters are covered by the IREDES Drill Rigs Profile.

#### **Status**

The IREDES Drill Rigs Profile is released since 2002. The current version is V1.4. A next major release is planned for 2015.

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