

IREDES Messaging / Work Order Profile

Simplified exchange of Messages and Work Orders

Motivation

For optimizing the mining process, the reachability of people and the possibility to exchange messages and work orders is essential. Today, this means to exchange this information, electronically. However, text messages and work orders may originate from many different IT systems or being typed manually by the dispatchers. On the other side, this information needs to be made available on a large number of different mobile or stationary devices in the mine like Smartphones, Tablets, PDA's, Integrated machine operation displays, operator terminals etc.

Purpose

The purpose of the IREDES Messaging Profile therefore is enable each compatible mobile devices to be used for a standardized message communication as well as to eliminate the need for an additional display on mining machines as the standardized format enables the direct integration of the work order and message communication with the machine's operator display. The purpose is to enable a bidirectional communication using farmost predefined text and answers so all messages can be electronically processed and easily used in an internationalized environment.

This way the IREDES Messaging Profile optimizes the production process and enhances safety and helps to cut cost for operation and to improve mine efficiency.

Scope

The Messaging Profile defines the content structure of text messages and work orders so the electronic screen layouts and mobile applications can be prepared accordingly. It also defines basic and generic content. All specific content can be defined by the users individually. The IREDES Messaging Profile is designed to be used on devices which are not equipped with alphanumeric keyboards: To achieve this all messages sent to a mobile device contain a list of predefined responses which can be easily selected on a mobile device using two keys only. The same applies when variables in a response have to be set. For active sending of a message from a mobile device, lists of predefined messages are loaded to the respective devices.

The Messaging Profile also defines the message exchange routine and the way how predefined lists of messages are set up to be available for sending from mobile units.

Status

The Messaging Profile will be implemented as part of the version 2.0 of the IREDES standard.

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