IREDES OPC UA model (companion specification mining)
OPC UA information model for the IREDES standard

Motivation

For safety and efficiency reasons the mining process is getting automated more and more. Here OPC UA is a possibility to provide an open, royalty-free and secure carrier for IREDES data. OPC UA has a broad scope which delivers for economies of scale for application developers. This means that a larger number of high-quality applications at a reasonable cost are available. When combined with semantic models such as the ones defined in the OPC UA CS Mining sub part IREDES, OPC UA makes it easier for end users to access data via generic commercial applications.

The OPC UA model is scalable from small devices to ERP systems. OPC UA Servers process information locally and then provide that data in a consistent format to any application requesting data – ERP, MES, PMS, Maintenance Systems, HMI, Smartphone or a standard Browser, for examples. For a more complete overview see OPC 10000-1.

Purpose

The purpose of the IREDES OPC UA model is to enable the usage of OPC UA as a carrier for IREDES data. At the same time the contents of the model is exactly the same as the contents defined in the IREDES XML schemas.

Scope

The IREDES OPC UA model defines most of the IRTypes, the IR applicationBaseClasses, as well has the LHD/truck equipment profile. As mentioned above, the contents is exactly the same as in the XML schemas.

Status

The IREDES OPC UA model is released.

Questions? Want to participate in creating the standard? Not an IREDES member yet? Get involved:
info@iredes.org