



RPMGlobal and ISA-95 - Creating a Standard for Mining

ISA-95 is mining's world first widely adopted 'open' standard that creates a seamless communication protocol for data flowing between all of the vital, increasingly automated and connected, cogs in supply chain lines. The latest mining profile to ISA-95 enables true digital transformation and breaks down the current rigid environment and its inflexible information siloes. Without this standard, it is impossible to bring information technology and operations technology systems together to upgrade mining to a new level of prosperity and efficiency.

Technology Summary

ISA-95, officially known as Enterprise-Control System Integration was built as a framework for open manufacturers to build a consistent data model that would allow information to flow freely across production, maintenance, quality and inventory operations in a manufacturing environment. This essentially models how a manufacturing process works and how the objects in the model should communicate. Using tools such as business-to-manufacturing mark-up language (B2MML), ISA-95 simplifies communications between level 3 and level 4 systems in the

operating environment. Every message will have the context of the production event that occurred in addition to the relevant data to support the even.

Why is it important?

For mining to perform a digital transformation towards an autonomous future it requires standards in place that allows systems to interoperate. At RPMGlobal we believe federated systems need to seamlessly interoperate to provide real value to the customer. Therefore, we not only

enthusiastically support standards adoption in our industry but actively participate and contribute to standards development. By allowing all areas to communicate, we help foster an environment of true productivity and efficiency. Under ISA 95's standards, it is possible to incorporate our full enterprise planning framework which can connect mine design, forecasting, scheduling, shift operations, extraction and train loading together. This combination allows users to reach their full productivity potential by producing a more efficient chain of communications than ever before.

RPMGlobal's involvement?

An enterprise integration approach has the ability to harness the latest digital improvements and propel mining to new levels of productivity, efficiency, safety and profitability. For this to occur, an enterprise integration approach is crucial as it allows data from various sources to communicate, rather than keeping their data separately stored. RPMGlobal are drivers behind this approach and recognise the value in creating and supporting standards that can unlock trapped data and provide it with a new level of context and richness. As part of their commitment to the enterprise integration framework, RPMGlobal are active members of the global mining standards group and are voting members on the ISA-95 committee. ISA-95 board member and RPMGlobal's Chief Technology Officer, Paul Beesley said, "RPM understands the modern mining operations eco-system consists of a number of different solutions, and these solutions all need to

integrate with one another to provide the next level of productivity improvements and give mining customers the flexibility to plug and play with various solutions to meet their unique requirements."

Therefore, the adoption of common standards offers the industry the opportunity to experience seamless communication regardless of the vendor or application used.



RPMGlobal Integration Tower

Conclusion

Connected data from all sources across the mining value chain has the ability to propel the mining industry to new heights. Seamless data exchange and unrivaled collaboration can only be achieved through the adoption and support of open, industry standards.

By encouraging collaboration between previously separate departments, systems and processes we are able to enrich data and give it the context required to provide one single source of information and a single version of the truth. This type of digital transformation

improves the decision-making processes that will allow the mining industry to reach higher levels of productivity, efficiency, safety and profitability.

About RPMGlobal

RPMGlobal is the global leader in the digital transformation of mining. We provide data with context, transforming mining operations. Our Enterprise approach, built on open industry standards, delivers the leading digital platform that connects the systems and information and seamlessly, amplifying decision-making across the mining value chain.

RPMGlobal integrates the planning and

scheduling, with maintenance and execution, with simulation and costings, on RPM's Enterprise Planning Framework, the mining industry's only digital platform that delivers insight and control across these core processes.

RPM's Advisory Team advise the global mining industry on their most critical issues and opportunities, from exploration to mine closure. Their deep domain expertise,

combined with their culture of innovation, and global footprint, ensures our mining customers continue to lead.

RPM are the global leader in Enterprise mining software, Advisory services and Professional development who operate offices in 23 locations across 13 countries and have worked in over 118 countries.

For more information visit rpmglobal.com or email info@rpmglobal.com.