

Guide to digitalization in mining

Discover the top use cases and options for mission-critical connectivity

NOKIA

The digitalization of mines

One platform is critical for mining digitalization

The benefits of private wireless

The advantages of 5G/4G

Case study: Golden Starline

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The challenges facing the digital transformation of mines

Mining is considered one of the most challenging and demanding industries globally. It is also one of the most important, producing the raw materials required by all other industries to manage every aspect of our lives, from construction to energy, manufacturing, and beyond.

The mining industry is also heavily regulated. Companies must adapt to an ever-changing regulatory landscape as introducing new technologies creates demands for certain raw materials while governments impose restrictions on the extraction of others. Today, as countries strive to meet net zero goals, greater pressure is being placed on mines to ramp up production and meet demand for the raw materials needed to produce wind farm components, electric vehicles, and more.

To satisfy this demand while achieving safety and environmental goals, mining companies are turning to digitalization – Industry 4.0 – and adopting technologies to improve safety, efficiency, productivity, and reporting capabilities. For this, they must prioritize seamless communication and data transfer,

using technologies to overcome many challenges, including:

Lack of existing infrastructure: Many mines are sited in remote, harsh landscapes, far from established communication infrastructure.

Harsh environments: Any equipment used must be ruggedized and reliable, able to withstand and operate in harsh, remote conditions where extreme temperatures, dust, moisture, blasting activity, and vibrations from the massive vehicles and equipment on site can interfere with some technologies.

Complex mine structures: Providing pervasive coverage can be a challenge for some technologies across vast open pits that span miles, or underground tunnels and rooms with sloping floors surrounded by mud, rock walls and separated by columns.

Limited bandwidth: As mining companies strive to connect data-intensive applications to digitalize operations from pit to port, they need a communications infrastructure that will support the needs of these applications with reliability and predictability.

Safety: High safety is a priority in these harsh, remote environments; companies must connect workers with other team members and allow them to reliably access and share voice, video, and data for greater situational awareness around the mine and to enable fast responses to react quickly in any incident.

Security: Because of the critical nature of operations, mining companies' communications networks are often targeted by cybercriminals seeking to disrupt operations. The attack surface increases as more assets and applications are connected, providing more opportunities for bad actors. Companies must leverage secure communications solutions to protect operations and workers.

Power constraints: In environments where power availability is inconsistent, it can be challenging to maintain the reliability of the communications infrastructure, which will impact the accuracy of data provided by continuous monitoring systems.

Protecting existing investments: Companies must find ways to connect legacy equipment to the network.



Mining companies' integrating the benefits of private wireless and 5G/4G

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The digitalization of mines

Today, mining companies embrace digitalization to access and use operational data to continuously improve processes and achieve their safety, sustainability, and productivity goals. Through their digital transformation, they can benefit from new Industry 4.0 use cases and capabilities

Predictive Maintenance: Besides monitoring and preventing disasters, mining companies can connect vehicles and other assets and benefit from continuous asset health monitoring. With alerts notifying them of potential issues, maintenance teams can

Safety and Security: Many mining companies are connecting and implementing CCTV and drones to reduce the need for workers to enter hazardous locations and to monitor the wider pit area for signs of intruders or to scan stockpiles to enhance safety and productivity

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Katrin Zwirglmaier



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A Network Architect's Guide to 5G Syed Farrukh Hassan, Alexander Orel, Kashif Islam, 2022-06-08 THE NETWORK PROFESSIONAL S GUIDE TO PLANNING DESIGNING AND DEPLOYING 5G TRANSPORT NETWORKS As 5G transforms mobile usage and services network professionals will need to significantly evolve their transport network architectures towards greater sophistication and stronger integration with radio networks and facilitate transition towards cloud native 5G mobile core Until now however most 5G guides have foregrounded RF radio and mobile core innovations not its implications for data networks A Network Architect s Guide to 5G fills the gap giving network architects designers and engineers essential knowledge for designing and planning their own 5G networks Drawing on decades of experience with global service providers and enterprise networks the authors illuminate new and evolving network technologies necessary for building 5G capable networks such as segment routing network slicing timing and synchronization edge computing distributed data centers integration with public cloud and more They explain how 5G blurs boundaries between mobile core radio access and transport as well as the changes in the composition of a traditional cell site with the adoption of Open and Virtualized RAN resulting in a transition to mobile xHaul Every chapter builds on earlier coverage culminating in a big picture presentation of a complete 5G network design Understand the evolution of mobile technologies over the generation leading to 5G s foundational concepts and principles Explore 5G changes to Radio Access Networks RAN the Mobile Core Mobile Transport and the need for tighter integration between them Use Segment Routing to architect simplified SDN capable networks and enable network slicing for 5G Rethink transport design to incorporate Far Edge Edge and public cloud based data centers augmenting centralized DCs to support distributed peering and Multi access Edge Compute Provide guidance to meet the criteria and requirements for various aspects of Fronthaul Midhaul and Backhaul architecture such as transport protocol evaluation latency consideration routing design QoS modeling network device selection and more Forge a cohesive 5G network architecture by combining mobile communications principles with advanced transport technologies *eBook: New Products Management 11e* CRAWFORD, 2014-09-16 *eBook New Products Management 11e* **User Experience in the Age of Sustainability** Kem-Laurin Kramer, 2012-05-30 *User Experience in the Age of Sustainability* focuses on the economic sociological and environmental movement in business to make all products including digital ones more sustainable Not only are businesses finding a significant ROI from these choices customers are demanding this responsible behaviour The author looks at user experience practice through the lens of sustainability whether it be a smart phone service based subscription solutions or sustainable packaging to expose the ways in which user researchers and designers can begin to connect to the sustainability not merely as a theoretical This book has a practical take on the matter providing a framework along with case studies and personal stories from doing this work successfully Both hardware and software design are covered Learn about the fundamentals of sustainability and how it can change the future of user experience professionals Learn how to integrate

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