AQURA Technologies

Mission Critical Communications – PTT over LTE

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- Instant person to person or group communications without needing to deploy a 2-way VHF/UHF network
- Supports advanced features such as IM and Video
- Embedded location-based services
- Reliable and secure digital communications
- MCPTT can be retrofitted to existing installations

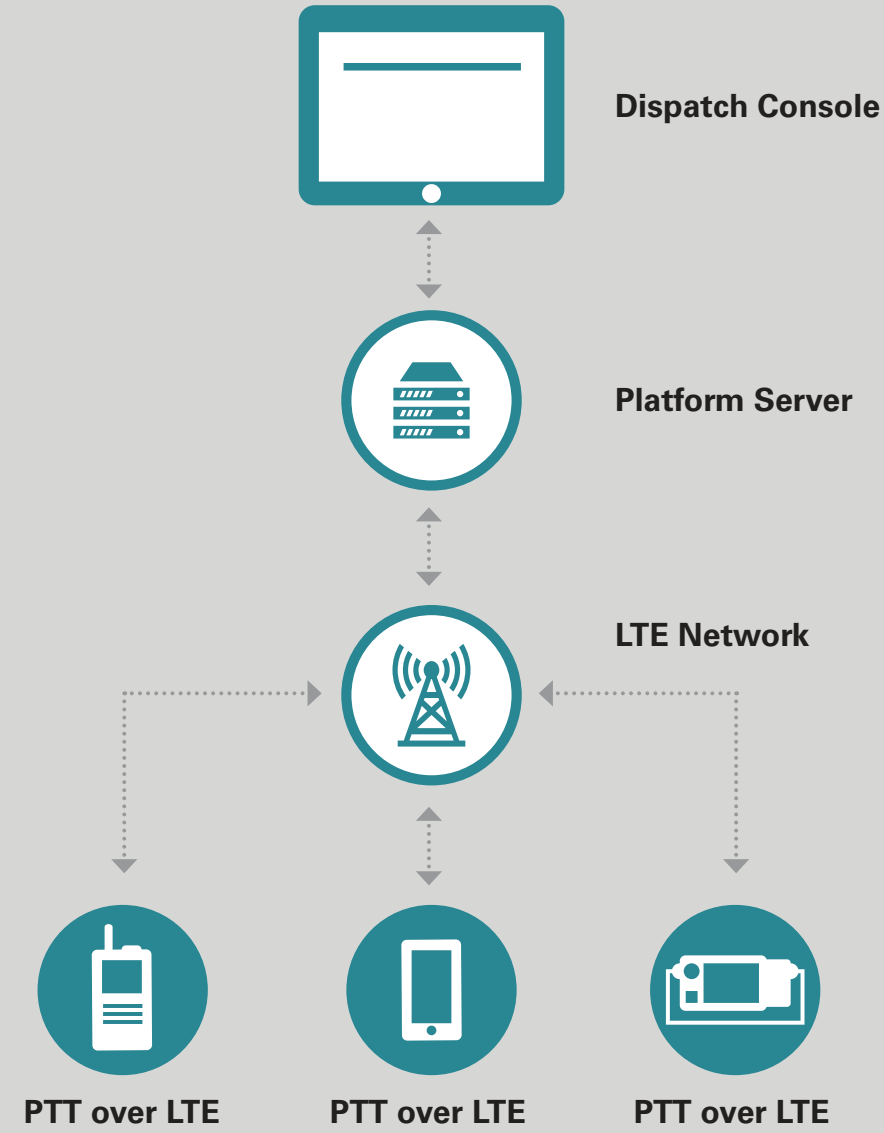
The benefits of 4G LTE to deliver increased productivity and greater levels of safety are being realised across a wide range of business operations. No longer are disparate systems and technologies needing to be deployed for different applications.

Value-Adding LTE

Our Push-to-Talk (PTT) over Private LTE platform further expands the value of our Private 4G LTE network solutions with an advanced feature set, such as a data and video, and offers far greater benefits than traditional trunk radio and LMR systems.

And you have the reassurance that our PTT over LTE platform conforms to 3GPP standards and is MCPTT compliant.

Upgrade to Critical Communications



Coupled with the reach, reliability of coverage and enhanced capabilities that 4G LTE brings, PTT over LTE is a powerful foundation for mission-critical communications.

Fast & Secure Communications – digital encoding ensures high-quality voice, with low voice latency (sub 300ms).

Safety-first – platform supports SOS mode with instant user location identification.

Highly scalable – support for thousands of users.

Selective or Group Communications – communicate one-on-one, group level or full network broadcast.

Tracking – embedded location services within devices track location of each user.

Priority Override – ability to override communications with priority mode.

Range of PTT devices – extensive range of certified PTT over LTE devices from simple handsets, ruggedised smartphones, in-vehicle communications systems and operator consoles.

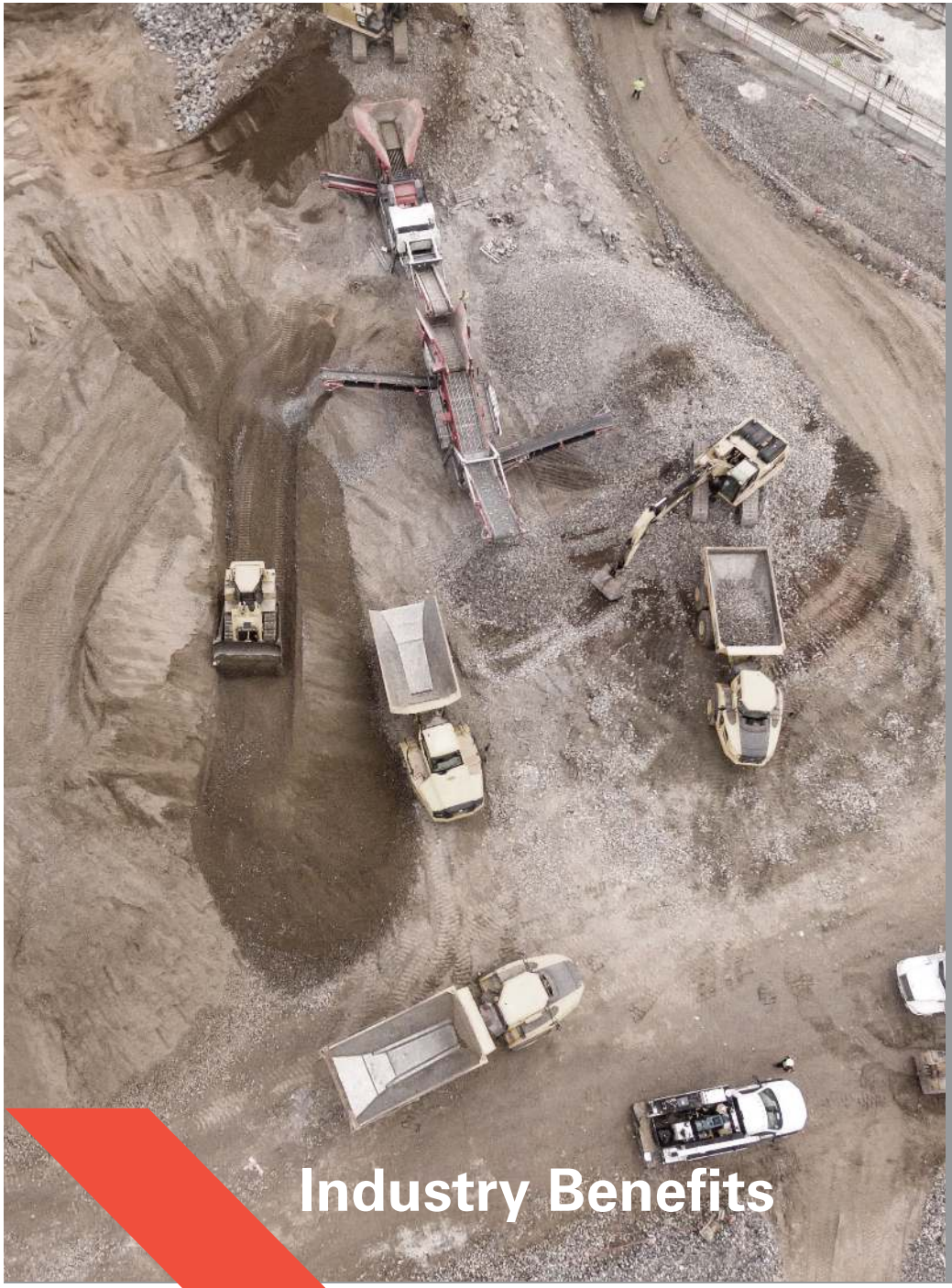
More than Voice – PTT over LTE also enables instant messaging, images and video (device dependent)

Why PTT over LTE?

PTT over LTE is now being adopted globally to overcome the limitations of traditional LMR systems.

Benefits of PTT over LTE

- Mission Critical compliant.
- Pervasive coverage with no additional infrastructure.
- High definition voice.
- Devices registered by user.
- Alert tone functionality.
- Geofencing alerts.
- Devices registered against a named user.
- User tracking via GPS.
- Direct to direct, group or full network communications.
- Priority call override.
- Instant messaging capability.
- Video enabled (subject to device).
- Instant SOS functionality with GPS location.
- Dispatcher console to monitor all comms/video feeds.
- Full call analytics and recording.

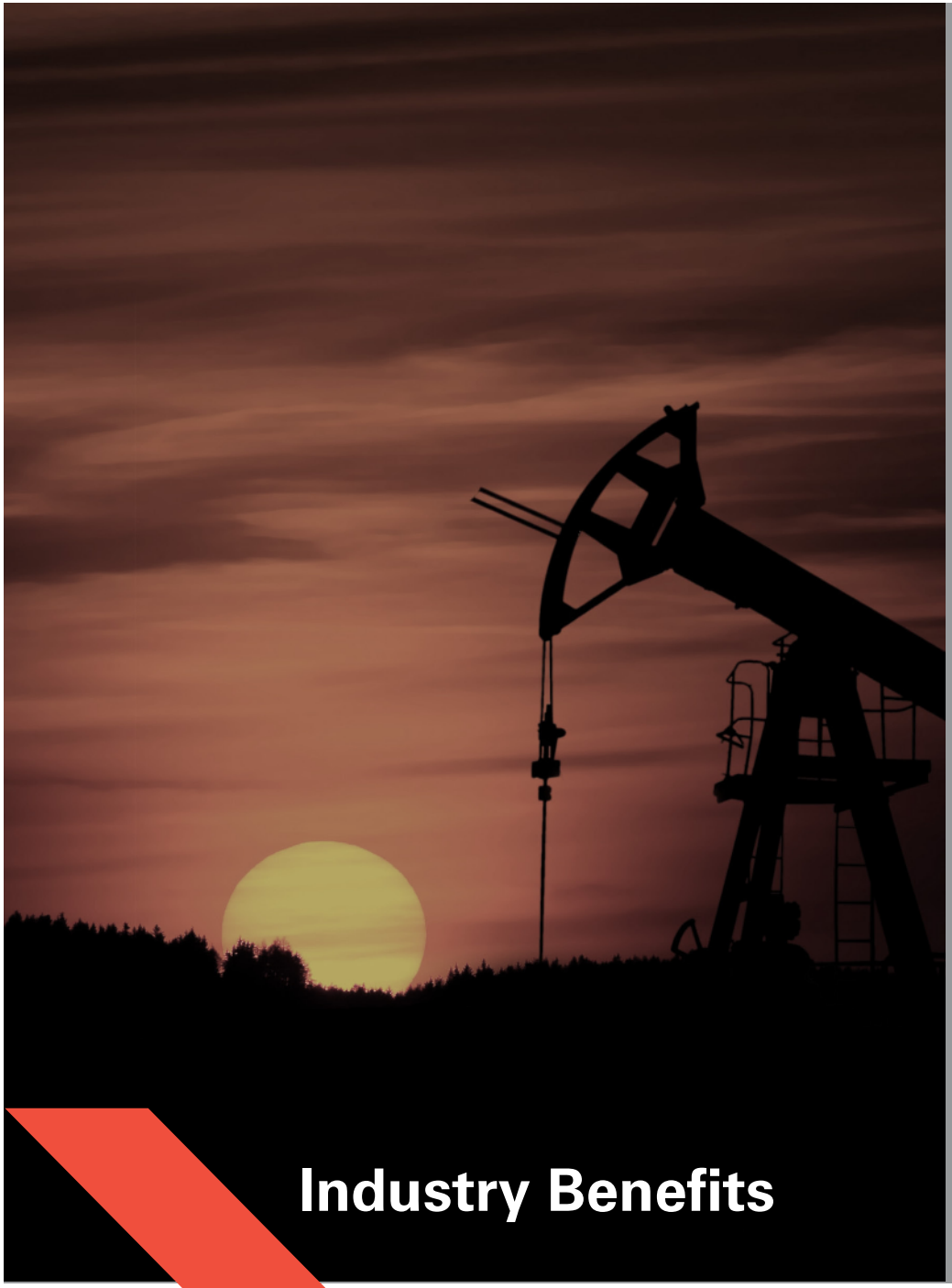


Industry Benefits

Mining

Communications across sites is critical. With increasing span and complexity in site topologies and infrastructure, locating and communicating with people wherever they are is critical for safe and efficient operations.

- Simplified team communications – group by operations, security, maintenance, infrastructure teams; with the opportunity for instant all-group communications
- Tagging of users to device enables location tracking of personnel for productivity and safety (particularly lone-worker situations)
- Proximity Geo-fencing with alert tones (i.e. blast areas)
- Ability to operate across surface and underground operations
- Opportunity to record communications for reporting and incident investigation
- Ruggedised devices which can handle the challenges of remote and harsh terrain



Industry Benefits

Oil & Gas

With remote operations and complex infrastructure running 24/7, it's essential that workers have access to reliable communications whether it's on an offshore platform, or on a broad expanse production precinct. PTT over LTE provides significant benefits to oil & gas operators including

- Reliable communication unaffected by buildings, or line of site issues
- Location monitoring of personnel by device
- Explosion-rated PTT Devices offer greater operability in hazardous areas
- Instant SOS functionality

Industry Benefits

Manufacturing & Production

Enterprises operating over large industrial precincts can harness the benefits of a dedicated PTT over LTE communications platform.

- Dedicated site communications network with no interference from other technologies (i.e. UHF)
- Secure encryption ensures your communications cannot be intercepted by others
- High availability without reliance on congested, or low signal public mobile networks
- Ability to track movements of users to ensure safe operations (i.e. fleet movements)
- Instant site-wide communications in case of emergency

Talk to us today about trialling PTT over LTE for yourself or to arrange a demonstration.

AQURA Technologies

About Aqura Technologies

Aqura Technologies offers a broad suite of communications solutions which are significant enablers of high performance in modern, digitally driven enterprises.

The organisation is recognised as an innovator having delivered Private 4G LTE networks since 2014 across major operations, and was the first to deliver 4G LTE underground in Australia in 2017. In 2018, the Aqura Autonomous Rapid Communications (ARC) platform was awarded best infrastructure solution in the 2019 WAITTA Awards.

Aqura, a fully owned subsidiary of ASX Listed Veris Group delivers its services across Australia from offices in Perth, Melbourne and Brisbane.

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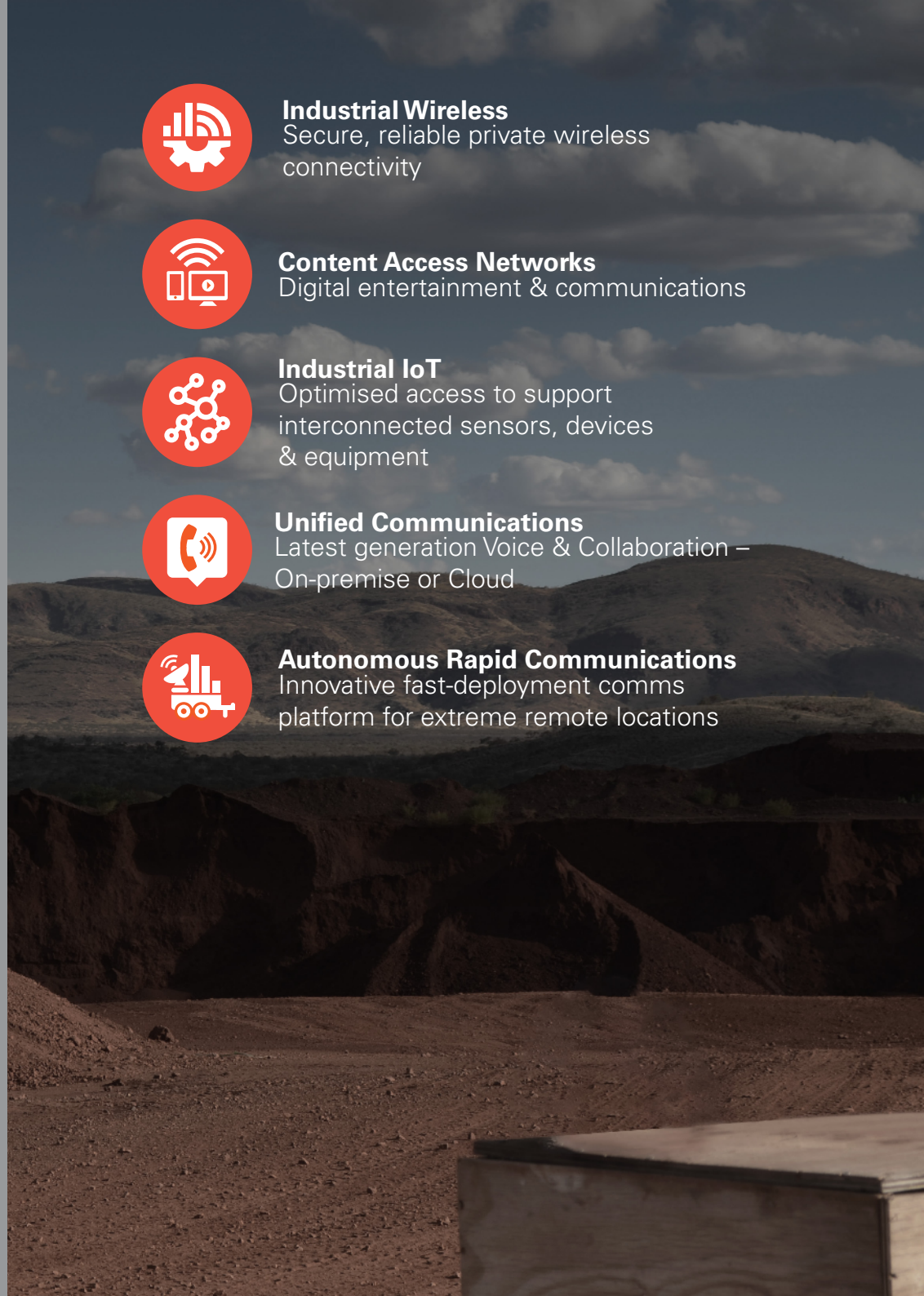

Industrial Wireless
Secure, reliable private wireless connectivity

Content Access Networks
Digital entertainment & communications

Industrial IoT
Optimised access to support interconnected sensors, devices & equipment

Unified Communications
Latest generation Voice & Collaboration – On-premise or Cloud

Autonomous Rapid Communications
Innovative fast-deployment comms platform for extreme remote locations