

07

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PUBLIC SAFETY

**CRITICAL
COMMUNICATIONS**

NETWORK DESIGN

FUTURE NETWORK DESIGN

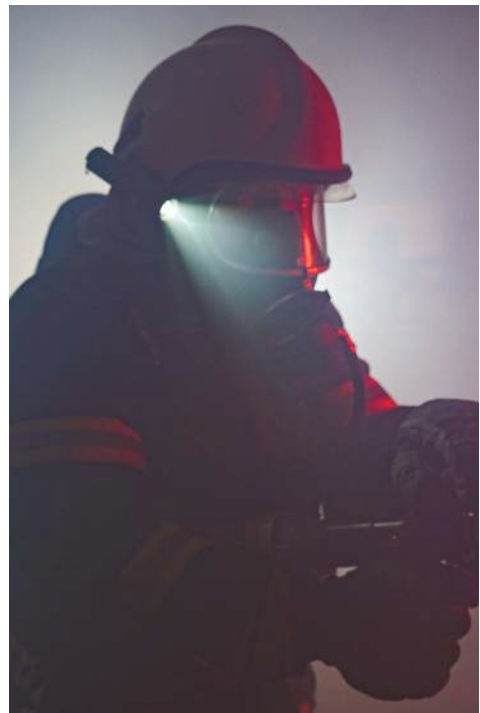
In our July newsletter, we discuss how new network design should be powered by artificial intelligence and predictive analytics to optimise the value created by network designers.

A major transformation is occurring right now within the critical communications domain. The target is to satisfy the evolved demands of mission-critical communications through modern telecommunication technology.

Public Safety – The Firefighter 2025 Design

How can we support first-responders in 2025? In this article, we explore a firefighting scenario. Reliable and secure seamless communication networks support first responders and their IoT sensors – across indoor and macro environments.

We all experience mobile indoor communications challenges, yet tomorrow's requirements will be more stringent, as they act as the foundation for communication. As the technologies and requirements evolve, the way we design networks must also change.



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CRITICAL COMMUNICATIONS

Existing 4G networks are typically built for consumers and businesses. Therefore, network investments are focused in areas where the technology serves most people. This means that large geographical areas, such as open water and uninhabited regions, may be left without coverage.

Mission-critical operations require communications capability in these places as well. Furthermore, the commercial networks may not be able to provide the required level of resiliency in potential disaster situations.

Omnitele assists critical communications user organisations in making the Mobile Broadband transformation.



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