

## Next Generation Base Communications Flexibility, Agility, and Resiliency for Today's Military

The Hughes vision for next-generation communication systems include building networks that address current challenges while anticipating future needs. The company supports the United States Military's vision for integrated communication and interoperability.

### Accelerating Innovation

Hughes empowers the Department of Defense (DoD) by integrating advanced commercial technologies and adopting agile development methodologies. This approach accelerates innovation, allowing the DoD to quickly adapt to emerging threats and opportunities. Utilizing Artificial Intelligence (AI), Machine Learning (ML), and edge computing, Hughes enhances the DoD's communication infrastructure with superior speed and efficiency, ensuring top performance and reliability in defense operations.

### Improved Interoperability

Hughes promotes seamless, standards-based integration across different platforms and systems, eliminating communication silos and enhancing interoperability. By leveraging open standards and protocols, Hughes ensures harmonious collaboration and information sharing across various networks, fostering a unified communication environment.

### Flexibility, Reliability, and Resiliency

While 5G represents a significant leap forward, enabling unprecedented connectivity and operational efficiency, extraordinary circumstances may still arise. In such situations, the ability to expand into multi-transport and multi-orbit communications is crucial. This adaptive infrastructure ensures continuous connectivity and mission readiness, even in the face of disruptive events. By leveraging diverse communication pathways, modern military bases can maintain robust command and control capabilities, ensuring that critical operations and strategic objectives are met without compromise.



## Intelligent Network Management System

The integration of AI and ML into Hughes networks represents a significant advancement, optimizing real-time network performance and resource usage. Coupled with edge computing and advanced communication technologies, Hughes offers unparalleled security and speed. As a pioneer in communication networks, Hughes exemplifies hybrid integration, intelligent networking, multi-path routing, and high performance, positioning itself to meet the demands of a connected military.

## Trust Hughes

Hughes represents the future of communication networks, embodying the essential qualities of hybrid integration, intelligent networking, multi-path routing, security, resilience, reliability, and high performance. As we continue to push the boundaries of what is possible in digital communication, Hughes stands as a beacon of innovation and excellence, ready to meet the demands of an increasingly connected military. Hughes offers a comprehensive vision for the next generation of communication systems. We build networks that are capable of handling today's challenges and prepared for tomorrow's advancements and communication requirements.



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**NEXT GENERATION BASE COMMUNICATIONS**

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H72446 JAN 25