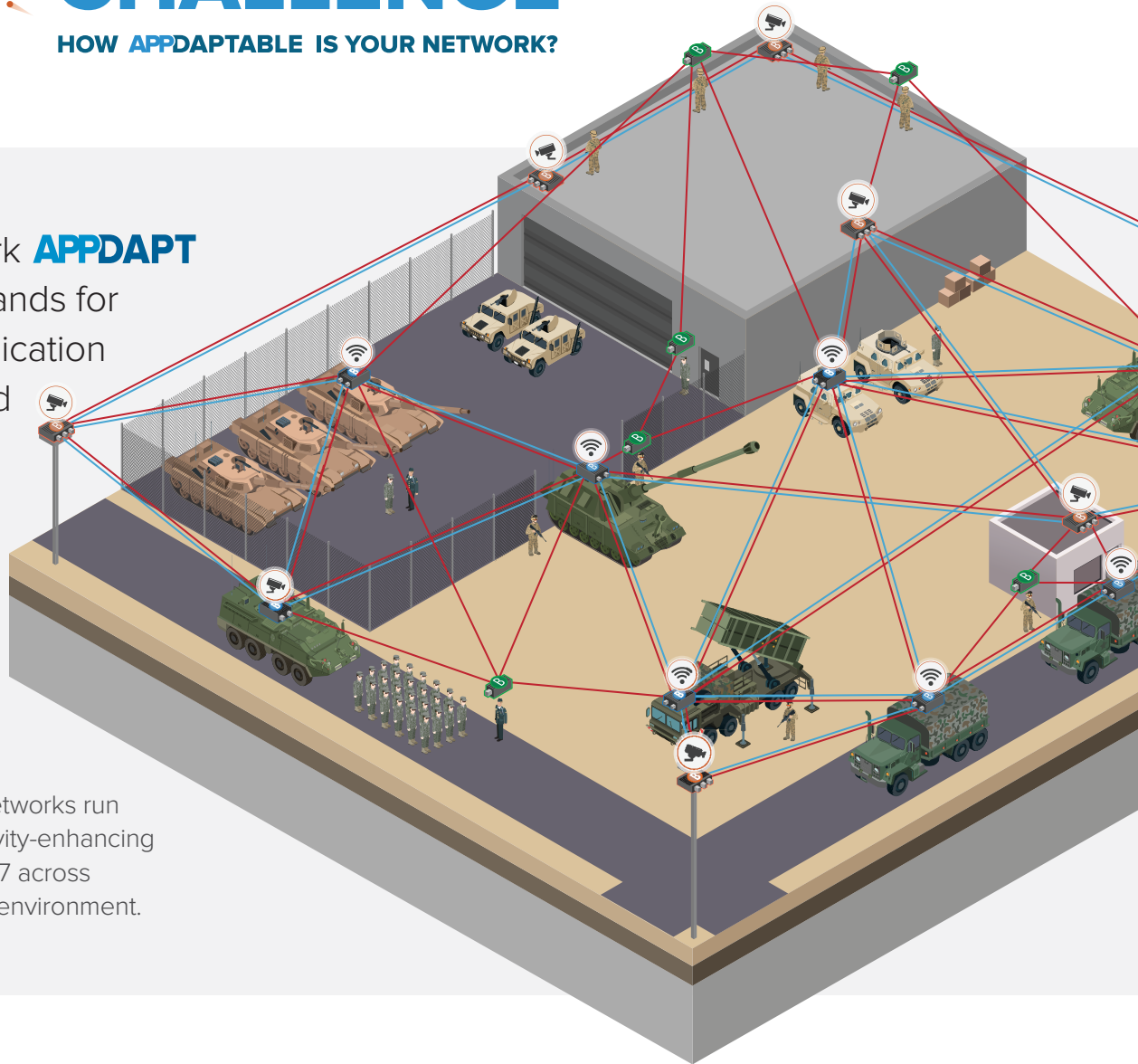


TAKE THE RAJANT
**APPLICATION
CHALLENGE**
HOW APPDAPTABLE IS YOUR NETWORK?

RAJANT

Can your network **APPDAPT**
to growing demands for
unwavering application
performance and
total mobility?



Rajant Kinetic Mesh® networks run efficiency-and productivity-enhancing military applications 24/7 across your diverse operating environment.

Applications Important to Streamlining Our Customers' Military Operations:

- Convoy Communications
- Battlefield Communications
- Persistent Awareness
- Test Range Communications
- TROIP (Tactical Radio Over IP)
- Vehicle-to-Vehicle Communications
- Machine-to-Machine Communications
- Video Surveillance
- Situational Awareness
- Force Protection

Maximize Network Adaptability with Easy-to-Deploy BreadCrumb® Wireless Nodes

Using Rajant's industrial-strength BreadCrumb wireless nodes powered by our patented InstaMesh® networking software, you can create a self-healing network able to dynamically adapt as people and assets move across your environment—all while keeping the network available, intact, and secure.

Each BreadCrumb can connect with multiple neighboring nodes via multiple links, providing fully redundant communications throughout the network. InstaMesh orchestrates this traffic and automatically optimizes communications based on physical surroundings and frequency availability.



BreadCrumb LX5



BreadCrumb ME4

Any BreadCrumb can be fixed or mobile, infrastructure or edge. The small-footprint, lightweight nodes are readily deployed on vehicles, towers, lampposts, buildings, and personnel.

Consider the following ways a Rajant Kinetic Mesh® network can help your military operations to both reduce costs and enhance outcomes.

REDUCE COSTS with Improved Operational Efficiency.

Protect personnel and property on military bases.

Wireless video surveillance can help protect nearly 800 U.S. military bases and **more than 2 million personnel.**¹

Wireless mesh access to real-time data, voice, and video can improve base security while eliminating the high cost and complexity of trenching and installing cable.

Update aging and obsolete legacy systems.

\$19.8 billion in development, modernization, and enhancement funds were planned for funding FY 2016 IT investments.²

Leverage legacy investment by integrating a Rajant Kinetic Mesh network to enable anytime, anywhere mobile connectivity, improve quality of service and extend network reach.

Extend real-time situational awareness out to the battlefield.

“People talk about the tactical edge – **I think the tactical edge is the soldier,**” Col. Morrison.³

Allow commanders and soldiers to see what is in the vicinity via life-saving data and imagery over a Rajant tactical mesh network that can be set up and torn down quickly.

INCREASE MISSION SUCCESS with More Effective Communications.

Greatly minimize convoy damages.

Vehicles within a convoy can cost **\$300,000 to more than \$1 million per vehicle.**⁴

Rajant's secure, mobile communications network can help you relay boundary crossings, checkpoints, and status updates and call for external support to protect personnel and vehicles.

Connect warfighters and machines strategically.

The IoT ecosystem is expected to include **24 billion connected devices by 2020, with \$13 trillion in ROI** to be generated by 2025.⁵

Instantaneously transmit data, voice, and video between warfighters, vehicles, and equipment to deliver actionable intelligence for analysis and decision making.

Conduct operations more efficiently, at less cost and with less personnel risk.

The DoD expects its inventory of unmanned aircraft to **grow to 14,000 UAS by 2035.**⁶

Transmit intelligence, surveillance, reconnaissance, and operational updates from unmanned vehicles to personnel via a secure Rajant wireless mesh network.

See the ROI for Yourself

Submit your application requirements—both current and desired—to Rajant's team at www.rajant.com/applicationchallenge to get started today!

1. “Where in the World Is the U.S. Military?,” Politico Magazine, David Vine, July/August 2015 and “United States Armed Forces,” Wikipedia.
2. GAO analysis of Office of Management and Budget's Information Technology Dashboard,” GAO-16-468.
3. Col. John Morrison, director of the Army's LandWarNet/Battle Command, Federal Computer Week, “Next steps in situational awareness,” March 2012.
4. General Accounting Office (GAO) report number GAO-11-83, “Defense Acquisitions: Issues to be Considered as DOD Modernizes Its Fleet of Tactical Wheeled Vehicles,” November 2010.
5. Business Insider, “Here's how the Internet of Things will explode by 2020,” BI Intelligence, April 2016.
6. “Unmanned Aircraft System (UAS) Service Demand 2015 - 2035,” U.S. Department of Transportation, September 2013.

Tel: 484.595.0233 | www.rajant.com

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