



OCTOBER 2018
SIGNAL MAGAZINE

FOCUS:

INDO-PACIFIC REGION

The largest theater in the world features more uncertainty and change than ever. While attention is focused on China and North Korea, the U.S. Indo-Pacific Command is facing greater challenges than it has confronted in peacetime. Peer rivals are implementing new technologies that threaten U.S. force superiority, and the command is exploring how to introduce countering capabilities while maintaining peace and security. *SIGNAL* Magazine's October issue examines the challenges and solutions dominating plans in the Indo-Pacific region.

- The commander of the Indo-Pacific Command describes how he is confronting the new challenges that pop up in the region daily.
- New commercial technologies may hold the key to the Indo-Pacific Command's connectivity, as the command's J-6 explains.

SPECIAL REPORT:

SCIENTIFIC FRONTIERS

New technologies are emerging from laboratories at a rapid pace, and that pace is increasing as different scientific disciplines come together. This synergy promises wholly new capabilities that will reach into every corner of society and national security. *SIGNAL*'s October issue explores some of these new directions from government and academic laboratories:

- The director of the Defense Advanced Research Projects Agency (DARPA) describes the hot technologies the agency is pursuing.
- The future of long-term scientific research is explored by the director of the Johns Hopkins University Applied Physics Laboratory.

ADDITIONAL CONTENT:

- The Defense Department's new CIO brings private sector expertise to bear on military information technology issues.
- DISA experts are reaching outside the agency's conventional military focus to help protect the nation's critical infrastructure.

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SPECIAL SECTION:

THE CYBER EDGE

Cyber's reach extends as more devices are networked for greater flexibility. Along with this comes a vastly enlarged threat picture. This month's version of *SIGNAL*'s quarterly special section looks at that threat picture along with proposed private sector solutions.

- Gen. Paul Nakasone, USA, commander of the U.S. Cyber Command, lays it on the line as the military confronts a new and growing threat.
- Signal officers in Europe use Global Agile Integrated Transport to overcome communications integration issues.
- Industry can offer new methods of outpacing and outmaneuvering adversaries in the cyber operational battlespace.
- Experts with NATO's C2 Center of Excellence (C2COE) weigh threats and opportunities as they plan for the command post of 2030.