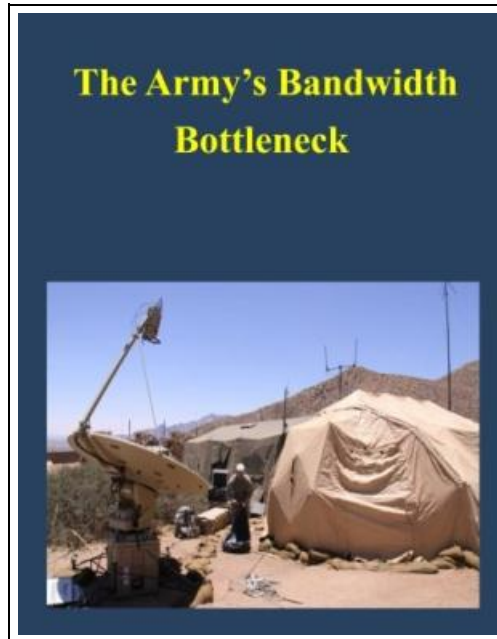


The Armys Bandwidth Bottleneck



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THE ARMYS BANDWIDTH BOTTLENECK



CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 58 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. Over the past decade, the U. S. Armys principal modernization initiative has been its digitization effort, designed to harness the power of the microchip to significantly improve the fighting capabilities of soldiers on the battlefield. But implementing that initiative presents significant challenges. Digitization requires the rapid transmission of large amounts of information over significant distances. Experiments conducted to date as well as recent operations in Iraq, where troops employed some of the results of the services digitization efforts, have shown that that requirement is difficult to fulfill not only under battlefield conditions but also in more benign circumstances. Since 1999, the focus of the Armys modernization program has shifted to what it terms transformation making its forces deployable more quickly while maintaining or improving their lethality and survivability. Although digitization is no longer the Armys primary modernization initiative, it remains a key element of transformation. In the past several years, questions about the size of the information flow associated with digitization and the communications bandwidth to support it that is, the capacity to move information at sufficient speed have spurred the Army to adopt several large radio and network communications programs. Ultimately to cost tens of billions of dollars, those programs are currently planned to provide initial operational capability by about 2010. This Congressional Budget Office (CBO) study, which was prepared for the Subcommittee on Tactical Air and Land Forces of the House Committee on Armed Services, examines the issue of how much bandwidth will be required to achieve the goal of digitization (the bandwidth demand) versus how much bandwidth will be provided by the Armys planned communications programs (the bandwidth supply). CBO finds that significant shortfalls currently exist for the Army in...



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