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## A Bibliography of Packet Radio Literature March 1984

This bibliography is intended to contain all of the material on packet radio technology open to those within the packet radio community and, subject to possible limitations imposed by various contractors or authors, available to the public.

The titles are divided into two groups: those in the open literature and those published as corporation or agency reports. Corporate or agency reports are arranged chronologically. Many of the documents are progress reports and their title is of little help in determining content. In those instances a few key words are appended to the bibliographic entry to help guide any given inquiry. SRI, while compiling and distributing this list, does not have the documents from other contractors on file and therefore cannot provide them. All requests should be made to the individual contractor at the address given in the Attachment.

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- Beeler, M., et al., "Command and Control Related Computer Technology," Bolt, Beranek and Newman Report No. 3122, Part 1, Quarterly Progress Report No. 3 (September 1975). Attachment of first PR digital unit to station, demonstration of a simple gateway, and development of a simple forwarder.
- Beeler, M., et al., "Command and Control Related Computer Technology," Bolt, Beranek and Newman Report No. 3209, Part 1, Quarterly Progress Report No. 4 (December 1975). TENEX and PDP-11 Transmission Control Protocol development, gateway work, ELF performance evaluation, and design of the connection and control process.
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- Beeler, M., et al., "Command and Control Related Computer Technology," Bolt, Beranek and Newman Report No. 3325, Part 1, Quarterly Progress Report No. 6 (June 1976). Connection and gateway development using actual PR unit software, initial implementation of the control process, completion of the cross-radio debugger, further TCP research, and support efforts.
- Beeler, M., et al., "Command and Control Related Computer Technology," Bolt, Beranek and Newman Report No. 3430, Part 1, Quarterly Progress Report No. 7 (September 1976). Issuance of several important Packet Radio Temporary Notes, delivery of the version 1 operational station software, further Internetwork research, and installation of a second PDP-11 station computer.
- Beeler, M., et al., "Command and Control Related Computer Technology," Bolt, Beranek and Newman Report No. 3479, Part 1, Quarterly Progress Report No. 8 (December 1976). Release of

TCP, gateway work for Satellite Net/ARPANET connection, and delivery of updated station software.

Beeler, M., et al., "Command and Control Related Computer Technology," Bolt, Beranek and Newman Report No. 3520, Part 1, Quarterly Progress Report No. 9 (March 1977). Upgrade of station software for compatibility with CAP3 protocol and other improvements, timestamping in gateways, cross-network debugger improvements, and further TCP research.

Beeler, M., et al., "Command and Control Related Computer Technology," Bolt, Beranek and Newman Report No. 3621, Part 1, Quarterly Progress Report No. 10 (June 1977). Disk loading capability added to ELF, implementation of measurement, information and station operator control processes, upgrades to gateway, coding of a TCP for the TOPS20 system, and research in network operation.

Beeler, M., et al., "Command and Control Related Computer Technology," Bolt, Beranek and Newman Report No. 3645, Quarterly Progress Report No. 11 (October 1977). Covers delivery of version 2 software, with operator control module, measurements with disk spooling, and information process; also discusses TCP and host/satellite IMP protocol.

Beeler, M., et al., "Command and Control Related Computer Technology: Packet Radio," Bolt Beranek and Newman Report No. 3771, Quarterly Progress Report No. 12 (December 1977). Measurement capability includes TIUs; point-to-point routing finalized and testing begun; upgrades to station terminal controller and measurement data printer; completion of TCP integrated into TOPS20 and TENEX monitors.

Beeler, M., et al., "Command and Control Related Computer Technology: Packet Radio," Bolt Beranek and Newman Report No. 3883, Quarterly Progress Report No. 13 (July 1978). Delivery of point-to-point routing compatible station software; papers on transfer points, use of PR ID numbers in routes, and dynamic routing among gateways.

Beeler, M., et al., "Command and Control Related Computer Technology: Packet Radio," Bolt Beranek and Newman Report No. 3906, Quarterly Progress Report No. 14 (August 1978). Station terminal controller accessible via TCP; 96-bit leaders in TCP; host-to-satellite-IMP module developed; minigateway developed; adaptive routing on satellite network; attacks on performance anomalies; papers on Packet Radio network routing, multiple stations, a symmetric interface, and gateway routing specification.

Beeler, M., et al., "Command and Control Related Computer Technology: Packet Radio," Bolt Beranek and Newman Report No. 3961, Quarterly Progress Report No. 15 (January 1979). Design of stationless compatible routing; specification of

local connectivity monitoring; full point-to-point routing station software; release of TCP version 2.5; VDH interface performance improvement.

Beeler, M., et al., "Command and Control Related Computer Technology: Packet Radio," Bolt Beranek and Newman Report No. 4124, Quarterly Progress Report No. 16 (May 1979). Negotiation of Channel Access Protocol version 5, with local connectivity monitoring; TCP version 2.5.1 available; installation of PR radio units.

Beeler, M., et al., "Command and Control Related Computer Technology: Packet Radio," Bolt Beranek and Newman Report No. 4337, Quarterly Progress Report No. 17 (February 1980). Release of TCP version 2.5.2; progress on TCP version 4, CAP 5 label process, and down line load process; Error Control Unit testing; re-installation of radio PR units; negotiations on PR network congestion control and on periodic route erasure by PRs.

Beeler, M., et al., "Command and Control Related Computer Technology: Packet Radio," Bolt Beranek and Newman Report No. 4338, Quarterly Progress Report No. 18 (February 1980). Demonstration of minigateway, TCP, and PR down line loading; papers on internet routing and flow control; completion of CAP 5 label process; conclusion of Error Control Unit testing.

Beeler, M., et al., "Command and Control Related Computer Technology: Packet Radio," Bolt Beranek and Newman Report No. 4339, Quarterly Progress Report No. 19 (February 1980). Internet Protocol version 4 available, including TCP; CAP 5 label process delivered.

Beeler, M., et al., "Command and Control Related Computer Technology: Packet Radio," Bolt Beranek and Newman Report No. 4339, Quarterly Progress Report No. 19-Final (February 1980). Labeler process enhancements, gateway efforts.

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- Collins, Collins Quarterly Report, Report No. 523-0699987-001C3L (July 31, 1975). Application of Acousto-electrical convolvers to PR.
- Collins, Collins Quarterly Report, Report No. 523-0699987-002C3L (September 31, 1975). Mobile operation and ECCM enhancement considerations.
- Collins, Collins Quarterly Report, Report No. 523-0602121-001C3L (January 31, 1976). Code slotted system concepts and PR network synchronization.
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