Theater Signal Command Organizational Structure

STAFF RESPONSIBILITIES

The following paragraphs describe the tasking, mission, and capabilities of the Theater Signal Command (TSC) headquarters as authorized by Table of Organization and Equipment (TOE) 11602L000.

PARAGRAPH 01, COMMAND SECTION

B-1. This section provides Command and Control (C2) and staff supervision over the TSC and exercises staff supervision over the Deputy Chief of Staff for Information Management (DCSIM) staff.

PARAGRAPH 02, CHIEF OF STAFF (COFS) SECTION

B-2. This section directs, supervises, and integrates the work of all staff sections.

PARAGRAPH 03, INSPECTOR GENERAL (IG) SECTION

B-3. As a member of the Commander's personnel staff, this section makes necessary inquiries and reports to the commander on matters pertaining to the performance of the mission, state of discipline, efficiency, and the economy of the command.

PARAGRAPH 04, JUDGE ADVOCATE SECTION

B-4. This section provides legal services support by personnel of the Judge Advocate General's (JAG's) Corps and provides advice and assistance to commanders and staffs on operational and administrative law. The primary mission of this section includes law of war and code of conduct advice, procurement law, and Status of Forces Agreement (SOFA) legal issues. This section maintains liaison with the Theater Army Area Command (TAACOM) Staff Judge Advocate (SJA).

PARAGRAPH 05, PUBLIC AFFAIRS OFFICE

B-5. This office advises the commander and staff on command information functions, including command information newspapers and distribution of command information.

PARAGRAPH 06, DEPUTY CHIEF OF STAFF FOR PERSONNEL (DCSPER)

B-6. The DCSPER serves as the principal staff assistant in matters pertaining to military and civilian personnel services and administrative programs of the signal commands, to include use, replacement operations, strength accepting, casualty reporting, classification, assignment promotion, safety, welfare, and morale services and administration.

PARAGRAPH 07, OFFICE OF PERSONNEL MANAGEMENT (OPM) BRANCH

B-7. This branch assists the office of the DCSPER in performing matters pertaining to personnel, both military and civilian.

PARAGRAPH 08, PERSONNEL ACTIONS BRANCH

B-8. This branch assists the Office of the DCSPER in performing personnel administrative actions.

PARAGRAPH 09, DEPUTY CHIEF OF STAFF FOR INTELLIGENCE (DCSINT)

B-9. The DCSINT serves as the principal staff assistant to the commander in all matters pertaining to intelligence and security.

PARAGRAPH 10, DEPUTY CHIEF OF STAFF FOR OPERATIONS AND PLANS (DCSOPS)

B10. The DCSOPS is responsible for the following:
- Providing day-to-day operations of the TSC and the Theater Communications System (TCS), and formulating plans, policies, and procedures.
- Developing, coordinating, and interoperating communications plans and requirements for automated data teleprocessing systems, special systems, and Army communications requirements.
- Preparing orders to implement the Communications Systems Planning Element (CSPE).
- Planning and performing short-term traffic engineering and making adjustments in system configuration.

PARAGRAPH 11, PLANS DIVISION

B-11. This division is responsible for formulating plans, policies, and procedures for the establishment, operation, and maintenance of high quality, high capacity, multi-means, multi-axis, automated, and integrated signal support systems network in sufficient detail to task subordinate units.

PARAGRAPH 12, TELECOMMUNICATIONS ENGINEERING BRANCH

B-12. This branch is responsible for the development, coordination, and interoperability of communications plans and requirements for Automated Data Processing (ADP) systems.

PARAGRAPH 13, HOST NATION/COMMUNICATIONS INTERFACE BRANCH

B-13. This branch works closely with the Defense Information System Agency (DISA) concerning the Defense Communications System (DCS) and coordinates with the host nation communications organizations for planning and using the assets within the Army Service Component Command (ASCC).

PARAGRAPH 14, COMMUNICATIONS SYSTEMS PLANNING BRANCH

B-14. This branch is responsible for formulating plans, policies, and procedures for employment of communications systems supporting tactical, theater, strategic, and base operations.

PARAGRAPH 15, PLANS SWITCHING BRANCH

B-15. This branch develops network performance standards and connectivity requirements for adjacent, higher, and lower units.

PARAGRAPH 16, AUTOMATION NETWORK PLANS BRANCH

B-16. This branch directs and plans requirements for automated data teleprocessing systems, special systems, and Army communications requirements.

PARAGRAPH 17, FORCE REQUIREMENTS BRANCH

B-17. This branch develops, applies, and ensures compliance with policies and procedures for programming and allocation of signal manpower and equipment resources.

PARAGRAPH 18, OPERATIONS DIVISION

B-18. This division prepares orders to implement plans developed by the Communications System Plans Branch, Plans Division; performs short-term traffic engineering; makes adjustments in system configuration; manages reproduction; and resolves routine system problems.

PARAGRAPH 19, COMMUNICATIONS SYSTEMS CONTROL ELEMENT (CSCE) INTEGRATED SYSTEMS CONTROL (ISYSCON) BRANCH

B-19. This branch is responsible for preparing and disseminating priority lists and detailed emergency schedules for coordination restoration of circuits in the event of disruption of communications or damage to any part of the system. The branch provides ongoing management of all subordinate brigades' system control elements, coordination with joint communications controllers, coordination with other services and DISA communications controllers, and coordination with subordinate CSCEs.

PARAGRAPH 20, NBC BRANCH

B-20. This branch is responsible for the supervision of Nuclear, Biological, and Chemical (NBC) elements in the TSC.

PARAGRAPH 21, SYSTEMS AUTOMATION BRANCH

B-21. This branch is responsible for the development, coordination, and interoperability of automation data systems.

PARAGRAPH 22, INFORMATION SERVICES SUPPORT OFFICE (ISSO)

B-22. The ISSO reports to the G-6. The ISSO is responsible for the internal information needed for Headquarters and Headquarters Company (HHC), TSC. This includes records management, printing and publications, internal distribution, automation, telecommunications, and mail handling for the headquarters.

PARAGRAPH 23, DEPUTY CHIEF OF STAFF FOR LOGISTICS (DCSLOG)

B-23. The DCSLOG supervises matters pertaining to TSC logistics requirements and provides general and technical guidance, direction, control, supervision, and coordination of logistics matters.

PARAGRAPH 24, SUPPLY AND SERVICES DIVISION

B-24. This division plans and directs the supply and services activities for the TSC. It engages in the acquisition, receipt, storage, preservation, and issue of all classes of supply.

PARAGRAPH 25, MAINTENANCE DIVISION

B-25. This division plans and directs activities and organizations engaged in material management and maintenance matters.

PARAGRAPH 26, OFFICE OF STAFF ENGINEER

B-26. This office serves as the principal staff assistant to the commander and exercises staff supervision over all engineer matters within the TSC.

PARAGRAPH 27, OFFICE OF THE COMPTROLLER

B-27. This office serves as the primary staff officer for resource management.

PARAGRAPH 28, OFFICE OF THE CHAPLAIN

B-28. This office advises the commander on the use of chaplains within the TSC.

PARAGRAPH 29, HEADQUARTERS COMMANDANT

B-29. This office is responsible for the support function within the headquarters.

PARAGRAPH 30, COMPANY HEADQUARTERS

B-30. The Company consists of Company Headquarters, Unit supply, Mess, and Motor Maintenance.

PARAGRAPH 31, DCSIM STAFF

B-31. The DCSIM staff provides support to the ASCC on a day-to-day basis. The DCSIM staff develops the policies and procedures for using signal support assets within the ASCC. The DCSIM staff provides assistance to units within the area of operations and to other ASCC staff elements. The personnel within the DCSIM staff are assigned to the HHC, TSC, but they are normally collocated with the ASCC HQ.

PARAGRAPH 32, SIGNAL SUPPORT DIVISION

B-32. This division consists of the Signal Plans Branch and Information Services Branch

PARAGRAPH 33, SIGNAL PLANS BRANCH

B-33. This branch prepares the signal support management annex to the ASCC Operation Plans (OPLANs), directives, and orders; reviews and validates the signal support portion of all Major Subordinate Command (MSC) OPLANs.

PARAGRAPH 34, INFORMATION SERVICES BRANCH

B-34. This office manages, prepares, coordinates, and develops TSC HQ information capabilities, to include the HQ local area network, e-mail system, and distribution system.

PARAGRAPH 35, COMMAND, CONTROL, COMMUNICATIONS, AND COMPUTERS INFORMATION SYSTEMS (C4IS) DIVISION

B-35. This division consists of the Information Branch and C4 Branch, which provide information systems database analysis, programming assistance, oversight on records management, and overall control of frequency management and Communications Security (COMSEC) for the ASCC.

PARAGRAPH 36, INFORMATION BRANCH

B-36. This branch provides an oversight management function for records management within the ASCC.

PARAGRAPH 37, C4 BRANCH

B-37. This branch provides technical staff support for the ASCC signal support activities, frequency management, and COMSEC oversight.

THEATER SIGNAL BRIGADE

B-38. The following paragraphs list the responsibilities of the Theater Signal Brigade.

PARAGRAPH 01, COMMAND SECTION

B-39. This section provides Command and Control (C2) and staff supervision over the Theater Tactical Signal Brigade (Army).

PARAGRAPH 02, COMPANY HEADQUARTERS

B-40. The Headquarters and Headquarters Company (HHC) commander is responsible for C2 and coordination of the company's mission.

PARAGRAPH 03, ADMINISTRATIVE SECTION

B-41. This section operates under the staff supervision of the S1 officer and provides administrative and personnel actions for the entire brigade, advising the commander on all issues pertaining to personnel administration. This section also provides staff assistance to the subordinate units.

PARAGRAPH 04, LOGISTICS SECTION

B-42. This section operates under the staff supervision of the S4 officer and provides staff supervision for all logistics actions and develops logistics plans

for the brigade. This section also advises the brigade commander on all matters pertaining to logistics and maintenance.

PARAGRAPH 05, SIGNAL ENGINEERING SECTION

B-43. This section is the Communications System Planning Element (CSPE) for the brigade. It conducts detailed systems engineering studies and develops plans for establishing communications systems. Some of the specific actions performed by this branch include:

- Determining the technical characteristics of circuits.
- Determining equipment suitability and adaptability with existing military indigenous communications systems.
- Ascertaining the types of installations and employment required to provide quality transmission over installed circuits and systems.
- Handling of frequency requests and associated records for the brigade units.

B-44. The branch also maintains direct coordination with the CSCE section, keeping the section informed of current and future needs for rerouting or reconstituting circuits and facilities throughout the communications system.

PARAGRAPH 06, SIGNAL CONTROL SECTION, COMMUNICATIONS SYSTEMS CONTROL ELEMENT

B-45. This section provides effective operational management and responsive systems control. The main objective of this section is to optimize the performance of the deployed network in the face of a constantly changing network configuration. A database is established and maintained to assist in near real-time control of communications systems and to assist the Signal Plans/Intelligence Section in systems planning and engineering.

PARAGRAPH 07, SIGNAL PLANS AND INTELLIGENCE SECTION.

B-46. This section is responsible for planning, coordinating, and supervising the plans and intelligence requirements of the brigade.

PARAGRAPH 08, MINISTRY SECTION

B-47. This section provides religious and welfare support.

PARAGRAPH 09, COMMAND JUDGE ADVOCATE

B-48. This section provides legal services support by personnel of the Judge Advocate General's Corps (JAG) and provides advice and assistance to commanders and staffs on matters concerning operational and administrative law.

POWER PAC3 COMPANY

B-49. This unit provides the following capabilities:

- Command, staff planning, control, and supervision of the operations of the company to include any augmenting of personnel or material assets.

- Vehicular, electronic and COMSEC maintenance and repair as well as supply facilities to support company operations.
- Communications network planning and management.

B-50. Other responsibilities of the POWER PAC3 are listed below.

COMBAT RADIO NETS

B-51. Secure Single Channel TACSAT provides virtually unlimited range for contingency deployment enroute communications, in-theater communications, mobile operations, intelligence broadcast, and Combat Net Radio (CNR) users. The single channel TACSAT terminals are located at the Army Forces (ARFOR) Main Command Post (CP), ARFOR Forward and each Liaison Officer (LNO) team location.

B-52. Commercial single channel TACSAT provides almost instantaneous worldwide voice and data access at low to medium data rates. Commercial terminals would be located at the ARFOR Main, ARFOR Forward, and each LNO team location.

B-53. Improved High Frequency Radio (IHFR) systems provide long haul secure voice and limited low rate data. Its primary mission is to provide redundant internal command, control, and engineering between geographically dispersed signal teams. IHFR would be located at the ARFOR Main CP, ARFOR Forward and each LNO team location.

B-54. Secure Frequency Modulated (FM) Radio/Single Channel Ground Airborne Radio (SINCGARS) is located at the ARFOR Main CP, ARFOR Forward, and each LNO team location.

MULTICHANNEL COMMUNICATIONS

B-55. The SHF Tactical Advanced Range-Extension Terminal (STAR-T) provides multichannel communications connectivity internal to the theater as well as external between the theater and sustaining base. The transponder-based satellite system operates in the X (Defense Satellite Communication System (DSCS)), C and Ku (commercial) SHF frequency bands. STAR-T terminals will be located at ARFOR Main CP, ARFOR Forward, and at each LNO team in numbers sufficient to provide the throughput and robust connectivity required by supported headquarters. The STAR-T has an integrated switching capability, and supports local subscribers as well as terminate Digital Trunk Groups (DTGs) from Line of Sight (LOS) terminals and other STAR-Ts.

B-56. The AN/TSC-143, (Tri-band) terminal is the prototype STAR-T and will be fielded as an interim solution. It has embedded switching which functions as both tandem and Private Branch Exchange (PBX) switch. It is designed to replace the current AN/TTC-39 and AN/TTC-48 switches, as well as the AN/TSC-85 and AN/TSC-93 satellite terminals

B-57. Currently fielded multichannel TACSAT assets will be replaced by the STAR-T. During the transition, the STAR-T will be interoperable with the AN/TSC-85 and AN/TSC-93, Satellite Communications Terminals. They provide low, medium, and high capacity multiplexed data and voice circuits and can be used in point-to-point, hub-spoke, and mesh networks. These

terminals operate in the military portion of the SHF X band frequency range over the DSCS and can only interface with the STAR-T in the X band.

B-58. LOS equipment used by the Power PAC3 will be capable of interfacing with the STAR-T integrated switch. It will be used at the ARFOR Main CP to allow for geographical dispersion of site circuits throughout the Command Post AOR.

HOST NATION AND COMMERCIAL COMMUNICATIONS

B-59 Host nation and commercial communications consist of local switching centers, loop distribution networks, and inter-switch transport systems (radio, cable, fiber optics, and satellite). Host nation systems vary from country to country, but basic international standards are applied.

TACTICAL PACKET NETWORK (TPN)

B-60. The TPN is a data network made up of interconnected packet switches overlaid on the circuit switched network. Users access the TPN by directly connecting to the packet switch or by connecting to a Local Area Network (LAN). The TPN provides users the ability to pass data throughout the battlefield and back to the sustaining base through Defense Integrated Secure Network (DISNET) 1.

B-61. Packet switching is provided via the STAR-T located at the ARFOR Main CP, ARFOR Forward CP, and each LNO team site. The STAR-T has an integrated packet switching capability and will support users via LANs. Additional users can connect directly to the packet switch or, less desirably, through dial-up into the circuit switch.

MOBILE GATEWAY VAN (MGV)

B-62. The absence of Multi-level Security (MLS) prevents users on the TPN from sending and receiving E-mail messages to the sustaining base through the unclassified Nonclassified Internet Protocol Router Network (NIPIRNET). The MGV provides an interim solution for tactical users.

B-63. The MGV provides a tactical extension of the unclassified NIPIRNET for tactical users through the use of router technology/packet network. The MGV provides users e-mail, file transfer, and Telecommunications Network (TELNET) capabilities over NIPIRNET.

B-64. There will be two MGVs available for each Power PAC3 Company. The MGV will provide NIPIRNET access to all users on the battlefield and will be installed, operated and maintained by the Data Team located at the ARFOR Main.

DOWN-SIZED MESSAGE SWITCH

B-65. Power PAC3 will provide messaging capability via DMS products directly connected to the tactical network which may be used for sending and receiving both GENSER (R) and DSSCS (Y) formal record traffic.

B-66. Users will be able to access the switch directly through an encryption device or by dialing through the circuit switch with a secure telephone. Subscribers without a direct or dial-up connection can send and receive

messages directly from the message center (over-the-counter). The message center will be located at the ARFOR Main CP.

TACTICAL VIDEO TELECONFERENCE, (VTC) SYSTEM

B-67. VTC service with worldwide connectivity is possible through tactical communications systems. Recent lessons learned demonstrate enhancement of the commander's span of control through VTC support. A deployed commander can meet face-to-face with either subordinate or senior commanders on a moment's notice through tactical VTC systems. These systems are supported by secure networks. A tactical VTC system would be based out of the ARFOR Main CP and provide connectivity with the Forward and LNO sites as well as strategic locations via network gateways.

B-68 Emerging technology has made VTC communications an extremely viable combat multiplier for the commander. Thorough distribution of VTC, resources will ensure the over all effectiveness of these systems. **As additional services become available, they will be integrated with Power PAC3 capabilities.**

B-69. The Power PAC3 Company depends on the following:
- Appropriate elements of the theater support command for health, legal, religious, finance, personnel, administrative service, POL, ammunition and food services.
- Army aviation units for in theater supplemental air transportation.

MAJOR SUPPORT COMPANY (SEPARATE)

INFORMATION SERVICES

B-70. The Major Support Company (Separate) provides the following information and signal support services:
- Secure and non-secure voice and data.
- Host nation/commercial telephone access.
- Network entry for Mobile Subscriber Radio Terminal.
- MSRT users.
- Increased theater connectivity.
- Combat Net Radio interface.
- Tactical Packet Network Interface.
- Army Global Command and Control System connectivity.
- LAN tech support (systems management assistance).
- Multiple means of long range communications.
- Mobile E-mail host.
- Flood search routing.

B-71. The Major Support Company (Separate) is authorized an additional 96 Secure Telephones and 297 Non Secure Telephones with appropriate ASIOE to provide service to those organizations who do not provide their own instruments.