ARMY TRANSPORTATION MOVEMENTS MANAGEMENT

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ARMY TRANSPORTATION MOVEMENTS MANAGEMENT

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CHAPTER 1
INTRODUCTION
(SOLOG 27)

1-1. Purpose and Scope

a. This manual provides a general guide for commanders and staff officers at all levels for organizing and operating the transportation movements system in a theater of operations. It also provides movement control commanders and staff officers with a guide for movement control organizations and operations in the field.

b. Transportation movements is defined in AR 320-5 as the management of the movement capability to insure maximum accomplishment of the movement requirements. The term “Movements management” is used in this manual to describe collectively those functions performed by transportation movement control personnel of a command. To clarify the nature of movements management, the several associated terms are defined and discussed in paragraph 1-4.

c. This manual covers the movement control organization, functions, procedures, and relationships involved in managing transportation resources for movement of materiel and personnel.

d. The material presented in this manual applies without modification to general, limited, and cold war.

e. This manual is in consonance with certain international standardization agreements which are identified by type of agreement and number at the beginning of each appropriate chapter in the manual. Copies of these agreements are contained in appendixes C—R.

f. Users of this manual are encouraged to submit recommended changes and comments to improve the publication. Comments should be keyed to the specific page, paragraph, and line of the text in which the change is recommended. Reasons will be provided for each comment to assure understanding and complete evaluation. Comments should be prepared using DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commanding Officer, U.S. Army Combat Developments Command Transportation Agency, Fort Eustis, Virginia 23604. Originals of proposed changes which would constitute a significant modification of approved Army doctrine may send an information copy through command channels to the Commanding General, U.S. Army Combat Developments Command, Fort Belvoir, Virginia 22060, to facilitate review and followup.

1-2. Theater Transportation Services

a. The theater commander is responsible for coordinating all means of transportation assigned to his command. This includes not only that transport capability which is provided by U.S. forces, but also that which is made available to him by host of allied nations. He allocates to his subordinate elements, which may include either subordinate unified command(s) or separate service commands, a portion of the total transport capability. When the subordinate command to which transport is allocated is a unified command, it is responsible for controlling and coordinating all common use and common user transportation allocated to the command including intertheater air or surface transportation. When no subordinate unified command exists, the theater commander normally delegates to theater army the responsibility for providing and coordinating surface transportation in support of all U.S. forces and for controlling the use of space allocated to the Army for intratheater or intertheater airlift or sealift. This allocating procedure and a description of the theater army transportation system are contained in FM 55–6–1 (Test).

b. The theater army commander, to carry out his control and coordination responsibilities, develops and issues policy directives to his major subordinate commands, which in most theaters will include one or more field armies and the theater army support command(s) (TASCOM). These directives are usually the minimum required to facilitate throughput distribution (para 1–4e) and to assure effective transportation support under all conditions. The guidelines may include, among others, the following:
(1) The time frames for programing cycles (para 5–6).
(2) The degree of coordination required in movements planning.
(3) The influence of field army priorities for movements planned from the communications zone (COMMZ) to the field army area, the amount of deviation allowed from coordinated plans, and procedures for resolving conflicts.
(4) The provisions under which one command may divert, reconsign, hold in transit, reload, or otherwise use the transport of the other command.
(5) The priority for use of host nation, allied nation, and U.S. owned and operated transport.

The theater army commander suballocates the total army transport capability to the field army (and TASCOM) commanders. He gives these commanders the responsibility for managing, within prescribed guidelines, the movement capability so allotted and for regulating and coordinating the use of the road space within their respective areas of responsibility. These transportation services, movements management and highway regulation, are discussed in detail in this manual.

d. Where a subordinate unified commander is delegated the responsibility for controlling and coordinating transportation and the use of allocated transportation space, he may establish a joint or unified movement control center (MCC) to manage the transport capability which he is allocated.

1–3. Principles of Movements

The principles of movements (SOLOG 27 (revised), app C) are applicable to all transportation services. They remain constant in peace or war and regardless of whether an automated or a manual system of operation is used. In a through d below are the principles and a general discussion of their application; annexes A through D, appendix C, contain examples of application of the principles and general guidelines for use when applying them.

a. Control of Movements Will Be Centralized to the Highest Level at Which it Can Be Adequately Exercised.

(1) This means that centralized control must be exercised by the commander charged with providing integrated logistic support. He must be able to establish priorities, allocate critical resources, and identify and correct deficiencies. In carrying out this principle, theater army and separate corps commanders are assisted by their respective support command commanders. These commanders provide integrated logistic support, have a single movement control unit, and actually command most of the agencies involved in accomplishing movements.

(2) In the field army, a variation from the principle exists. The field army support command (FASCOM) is responsible for providing integrated logistic support to the field army. It has subordinate elements (support brigades) which support divisional units of the corps and all units in a corps area or in the army rear area. Movements management activities have been established at FASCOM and at the subordinate corps support brigades. As a consequence, regulations and directives must be issued to provide a responsive, integrated, and coordinated movement control system throughout the field army area.

b. Movements Will Be Regulated.

(1) The introduction of automatic data processing (ADP) equipment into supply and transportation operations and the requirements to maintain and support highly mobile forces have greatly increased the requirement and capability for regulating movements beyond that which existed in World War II and the Korean War. Most supplies are moved from TASCOM rear depots (and in some cases from shipside) to army depots and to division support commands and direct support units. Depots handle only reserve stocks and generally are bypassed in the normal supply and transportation lines. As a consequence, TASCOM transport equipment is constantly moving into and within the field army area and detailed regulation and coordination are required to prevent congestion and conflict of movement.

(2) It is probable that in any future war U.S. forces will have to share the available airfields and road, rail, and inland waterway capabilities with allied forces. In this case, only careful regulation of movements and close coordination can assure an efficient, rapid transportation system.

c. Movements Will Be Fluid and Flexible.

(1) This means that the transportation system can provide an uninterrupted flow of traffic and can adjust rapidly to changing situations.

(2) One of the major goals of combat service support is maximum throughput of supplies (para 1–4e) to reduce the requirement for rehandling materiel in the COMMZ forward area and the field army rear area. The attainment of
throughput goals and the effective use of all transport are impossible unless the capability exists throughout the transportation system to divert, reroute, and exchange or to take whatever actions are necessary to assure continuous movement of supplies to destination. For example, the successful accomplishment of a motor transport trailer transfer operation from the TASCOM area to the field army would not be possible without appropriate control.

**d. Maximum Use Will Be Made of Carrying Capacity.**

(1) This fourth principle of movement means more than just loading earth transport vehicle to its optimum carrying capacity. (This is a responsibility of the transport services and the users.) Transport capability that is not used on one day normally cannot be stored to provide an increase in capability for subsequent days. Similarly, a situation allowing fully loaded transport to sit idle is just as much a loss of carrying capacity as is a partially loaded vehicle moving through the system. Tactical considerations may preclude complete adherence to this principle (for example, vehicles designated and held for the movement of special weapons or aircraft delivering unit loads in combat support); however, such use must be considered as an appropriate employment of the vehicles. Thus it is evident that this maximum-use principle penetrates the entire field of transportation movements. It is evidenced by the three principles previously discussed. However, these principles are primarily concerned with full use as obtained by formulating and regulating an integrated transportation system. The fourth principle is aimed at full use of the components of the system.

(2) The requirements for transportation within a theater or a segment of the theater will fluctuate, depending upon the tactical situation. However, transport normally will be in short supply and proper use must be made of the inherent advantages of each transport mode in accomplishing the commander's objectives. The air transport capability normally will be employed if speed of reaction is paramount or terrain features prohibit the use of other modes. Motor transport, with its capacity for wholesale and retail deliveries, complements the air mode and the fixed modes of rail and inland waterways.

**1–4. Terminology**

Throughout this manual certain terms are used to describe movements activities, functions, and tools. Some of the terms are narrowly defined in service dictionaries, others are contained in international agreements. In a through h below, the terms are more fully described and their relationship within the movements function are shown.

**a. Management** is a process of establishing and attaining objectives to carry out responsibilities. Management consists of those continuing actions of planning, organizing, directing, coordinating, and controlling the use of men, money, materials, and facilities to accomplish missions and tasks. The efficient operation of the transportation service in a theater of operations involves management from two aspects.

(1) Movements management is planning, coordinating, programing, and monitoring the allocation and use of available transportation resources in accomplishing the commander's movement requirements to include highway regulation functions.

(2) Operative management is a command function exercised by commanders of transport units, transportation facilities, and shipping and receiving installations or activities. By its application, commanders produce maximum movement capability through efficient employment of personnel, materiel, and facilities.

**b. A movement requirement** is a request that has been approved by the appropriate commander to transport personnel or materiel. Normally, the commanders will be the support command commanders in the area (TASCOM, FASCOM, support brigade, or corps support command).

**c. Movement capability** is the total capability of the shipping and receiving agencies and the transport services.

(1) The movement capability of a shipping and receiving agency is the agency's ability to receive, load/unload, and release transport during a stated period. Some of the factors that influence this capability are the amount of labor available, the quantity and type of shipments to be handled, the quantity and variety of materials handling equipment, and the facilities of the installation.

(2) The movement capability of a transport service (mode) organization is based on the potential lift capability of the organization and the average turnaround time of the conveyances used. Some of the factors which affect the potential lift capability are availability of operators, status of equipment, and average length of haul.
(3) Coordination of the capabilities of shippers, transport services, and receiving agencies develops a total movement capability. This coordination includes vigilant observation of the limitations of facilities and equipment to prevent congestion at loading and discharge locations. It recognizes the interdependent nature of terminal, transfer, and mode operations, and may establish schedules to avoid delay in transit. This coordination of capabilities of shipper/receiver and transport modes in consonance with priorities provides the solution to the command's movement requirements.

d. A movements program is a command directive prepared by the transportation movements element and issued in the name of the commander.

(1) The movements program is based on the commander's overall plan and is coordinated with all interested agencies. The movements program allocates the available transport mode capability to satisfy the movement requirements in accordance with priorities established by the commander. These priorities provide an orderly basis for resolving competition among the various users for the available transport capability. The movements program normally contains detailed information of origins, destinations, and weight and cube of cargo or type and number of personnel to be moved.

(2) The movements program serves the following purposes:

(a) It serves as the authority by which shipping agencies may initiate action to obtain transportation.

(b) It authorizes the transportation movements office (TMO) to issue movement releases.

(c) It directs the transport services to furnish the requisite capabilities.

(d) It alerts receiving agencies to prepare to accept programmed shipments and to unload carriers promptly.

e. Throughput distribution is the shipment of supplies from points of origin (normally rear depots) as far forward into the combat zone as possible, bypassing intermediate supply activities. Rehandling and transshipment (transferring) at intermediate locations within the transportation system are avoided whenever practicable.

f. Critical movement locations are, from the standpoint of movement control activities, those affecting the transportation system that must be kept under surveillance by movement control personnel to assure that they do not become bottlenecks that restrict the flow of traffic. In a theater of operations, critical areas may be in the following locations:

(1) Air and water terminals.

(2) TASCOM rear area depots.

(3) International borders.

(4) Transportation centers (for example, cities, termini of superhighways, and rail yards).

(5) Intermode transfer points.

(6) General support/direct support supply activities in the field army area when the tactical situation or terrain characteristics compel concentration of these activities.

g. An embargo is a command action temporarily limiting or prohibiting the acceptance or movement of shipments (SOLOG 27, app C).

(1) An embargo may be placed on an installation or area or on the services of a carrier. An embargo normally is used to prevent or relieve congestion at shipping, receiving, or transshipment points. It is also used when a serious disruption of a carrier's service occurs or is threatened. In any event, an embargo is imposed only when all other efforts, such as holding in transit, diverting to other installations, or using unaffected modes, have failed. When an embargo is imposed, prompt and continuing action must be taken by all concerned to alleviate the condition which caused the embargo and thereby to remove the embargo.

(2) Because of its widespread effect, an embargo is imposed only by the commander having overall responsibility for all affected activities. This authority usually is exercised by the TASCOM, FASCOM, or field army commander.

(3) An embargo must be specific as to its application and, when possible, should have a time limitation. Normally, an embargo is necessitated by a specific condition, such as temporary inability to load or unload aircraft or trucks or disruption of a particular carrier's services to all installations in a specific area. The essential consideration in recommending an embargo is to limit its effect insofar as possible on other areas, installations, or activities within an installation.

(4) The transportation movements field organization is charged with implementing and supervising the application of embargoes. Transportation movements offices (TMO's) must maintain close contact with embargoed activities to prevent further congestion or disruption of services and to assure restoration of normal service as quickly as possible.
h. A release unit is a shipment or transportation unit that must be offered to a movement control management authority for transport commitment as established by command criteria. Release unit criteria vary according to the type and nature of available transportation service. In the continental United States, for example, the basic release unit criteria are as follows: a shipment weighing 10,000 pounds or more, any shipment occupying the full visible capacity of a railway car or motor vehicle, and all oversize and overweight shipments. In overseas areas, similar criteria are established, although a lower weight limit may be used to achieve more effective use of transportation resources. Military standard requisitioning and issue procedures (MILSTRIP) tend to generate numerous small shipments, particularly in classes II, IV, VII, and IX. However, ADP equipment, appropriately programed, provides a means for consolidating these small shipments into release units and aids effective movements management.
CHAPTER 2
THEATER ARMY SUPPORT COMMAND
TRANSPORTATION MOVEMENTS MANAGEMENT
(STANAG’s 2041, 2159)

Section I. ORGANIZATION

2–1. General Staff Sections

a. The transportation functions of the theater army support command (TASCOM) are supervised by specialists assigned to the general staff section of the assistant chief of staff (ACofS), movements. The primary duties of these specialists are to advise the commander and staff on all transportation matters, to develop such plans or planning guidance as are necessary to provide an efficient transportation service for the command, and to provide technical supervision of all movement control centers (MCC’s) within the theater.

b. The ACofS, movements, has general staff supervision of the following transportation-related functions (among others):

1. Transport mode operations.
2. Movements management, excluding POL by pipeline.
3. Terminal operations.
5. Traffic control.

c. In carrying out his responsibilities to the commander, the ACofS, movements, uses his own staff resources and those of the transportation command to perform the following functions:

1. Advise the commander on effective use of the transport services and effective operations of those elements of the shipping and receiving services that have a direct bearing on fulfilling the commander’s movement requirements.
2. Recommend transportation movements management policies.
3. Prepare implementing directive for the entire theater. (Such directives are in consonance with the guidelines issued by the theater army.)
4. Conduct the ship’s destination meeting (para 5–15a(2)).

d. The headquarters, TASCOM, staff is a broad policy and planning staff which operates on a management-by-exception basis. It develops broad policy and planning guidance and does not become involved in day-to-day operations, planning, implementation, or management. The transportation command, because it contains the functional movement control center, technical specialists, and automatic data processing (ADP) facilities, performs the complete operational mission. This includes operational planning and management, implementing, evaluating, and summary reporting to headquarters, TASCOM. Representation on joint theater boards and committees normally will be provided by the transportation command. The transportation command ACofS, movements, is also the chief of the movement control center, TASCOM.

2–2. Transportation Movement Control Agency

a. General. The transportation movement control agency is a major subordinate unit of the transportation command. It uses data processing capabilities to achieve centralized control of the allocation of transport capability and time and space on controlled highway routes. It makes this control immediately responsive (through the transportation command) to the TASCOM commander’s desires, thus assuring close integration of supply support and transportation support. It is mandatory that maximum use be made of ADP facilities to assure coordination of all TASCOM movements with personnel replacement and supply activities in TASCOM and with the field army.

b. Mission. The mission of the transportation movement control agency is to—

1. Provide personnel and equipment to operate the TASCOM MCC and highway traffic headquarters, including the necessary field teams.
(2) Provide technical supervision through the ACofS, movements, to all MCC's in the FASCOM or corps support brigade.

c. Organization. The movement control agency is organized along functional lines to include a headquarters and mission elements (fig. 2–1). The plans and programs division, freight movement division, passenger movement division, and special movement division actually form the TASCOM movement control center (para 2–3). The agency headquarters commander is not normally involved in the operation of the MCC or field activities (para 2–2c(3)). The highway traffic headquarters and the field teams are also assigned to the transportation movement control agency, which is a carrier unit for the personnel assigned.

(1) When in a training status or employed in a theater where there is no transportation command, the senior officer assigned to the movement control agency is designated the commander of the movement control agency and is responsible for and directs the activities of the MCC.

(2) When employed in a theater that has a transportation command, the transportation command ACofS, movements, is designated chief of the TASCOM MCC. In this situation, the MCC operates under the direct control and management of the transportation command ACofS, movements, and is an extension of his office. However, as the transportation command headquarters and the MCC are not collocated, the ACofS, movements, normally designates a deputy to coordinate the actions of the MCC and to make sure that his policies are carried out. The presence of the deputy at the MCC does not preclude direct contact between the MCC division chiefs or the regional transportation movements offices (RTMO's) and the ACofS, movements.

(3) The agency headquarters provides housekeeping and administrative services for the MCC and the traffic headquarters. The agency headquarters commander is responsible for unit disciplinary actions on all enlisted personnel to include those assigned to RTMO's, transportation movements offices (TMO's), and highway regulating points (HRP's) and for assuring that field teams are provided mess and maintenance support.

(4) The TASCOM highway traffic headquarters operates under the supervision of the transportation command ACofS, movements. Engineer, communications, civil affairs, or other service officers may be attached by the TASCOM commander to the highway traffic headquarters on a mission or on an as-required basis. Collocation of the MCC and highway traffic headquarters is desirable.

(5) The RTMO's and TMO's A, B, and C are under the operational control of the MCC. The

Figure 2–1. Transportation movement control agency.
RTMO's report directly to the chief of the MCC and, by supervising the activities of the TMO's assigned to regions, they reduce the span of control of the chief of the MCC to manageable proportions.

(6) HRP teams are under the operational control of the highway traffic headquarters. They are stationed at critical locations on the highway net to carry out the traffic regulating plan.

d. Capabilities. The movement control agency is capable of—

(1) Providing personnel and equipment required to operate the TASCOM MCC and highway traffic headquarters, including the necessary field teams.

(2) Providing housekeeping and administrative services for the MCC and traffic headquarters to include disciplinary actions for all enlisted personnel assigned to the agency.

e. Location. The headquarters of the movement control agency is so located that trips to and from the transportation command headquarters can be made quickly with ground transportation. However, it is far enough from the transportation command headquarters and the ADP element to minimize simultaneous damage to all of these critical facilities.

2–3. Theater Army Support Command Movement Control Center

a. General. The TASCOM MCC normally is established as an element of the staff of the transportation command ACoS, movements. It provides an activity which balances and coordinates the capabilities of the shipping, transporting, and receiving activities to provide a responsive transportation system capable of satisfying the TASCOM commander's movement requirements. The MCC acts as the nerve center of the entire TASCOM transportation system through its planning and day-to-day transportation movements management.

b. Mission. The mission of the MCC is to provide movements management services for TASCOM. These services include negotiating for and procuring allied and host nation transportation, recommending movements management procedures, providing a smooth-working interface with CONUS (continental United States) and field army transportation activities, and operating the theater CONEX (container express) and roll-on/roll-off trailer control agencies.

c. Organization. As shown in figure 2–2, the MCC is composed of the plans and programs, freight movement, passenger movement, and special movement divisions. The MCC is supported by the agency headquarters. The chief of the MCC (transportation command ACoS, movements) has direct access to and control of the RTMO's, which he exercises through his staff divisions of the MCC.

(1) The chief of the MCC plans, supervises, and directs the activities therein. He establishes standards for all movements activities and controls and manages operations to provide for movements support in conformity with policies and decisions of higher headquarters.

(2) The plans and programs division is responsible for developing, coordinating, publishing, and distributing the movements program and, as directed, for preparing transportation movements plans and annexes in support of TASCOM logistic or contingency plans. New or modified directives issued by the commander of the theater, the theater army, TASCOM, or the transportation command are reviewed by the division to determine their effect on the movements system. The division recommends procedures for implementing these directives and prepares supplementing directives as required. This office exercises management and comptroller type functions, as required, for the MCC or the movement control agency.

(3) The freight movement and passenger movement divisions monitor the execution of the movements program. Based on special guidance from higher headquarters and on movement status and movement requests received, they recommend changes to the movements program, where additional TMO's are required, or where a probable relocation of transport mode operating units would be advantageous. These divisions also have responsibility for manually processing as exceptions those movements actions which are outside ADP machine program parameters.

(4) The special movement division is responsible for operating the theater CONEX and roll-on/roll-off trailer control agencies, for allocating the use of scarce special purpose equipment to various lifts, for coordinating large unit movements involving both personnel and equipment, for coordinating and monitoring the movement of special ammunition, and for arranging and monitoring such other special movements as may arise from time to time that require close supervision or monitoring.
d. Location. The MCC is located as outlined in paragraph 2-2e for the movement control agency.

e. Communications. Efficient traffic management demands prompt transmission of information and instructions; therefore, a reliable signal communications system is mandatory. With subordinate offices and teams dispersed over the entire COMMZ, the problem becomes more complex because of the increased distances between the headquarters and its subordinate elements. The theater operations signal command provides access facilities (radio relay and wire carrier) for each transportation movements activity which requires access to the theater area communications system (TACS). When for any reason TACS cannot adequately support the movement control organization, the theater commander may authorize the attachment of appropriate signal teams organized under TOE 11-500.

(1) The MCC and each RTMO have a radio set such as an AN/VRC-46, which permits entry into the radio wire integration system (RWI) of a major headquarters if necessary and if located within operating range.

(2) Each of the field offices and the MCC may have an electric typewriter capable of transmitting directly over wire facilities or receiving or transmitting punched paper tapes or edge-punched cards. Tape-to-card converters give the machine the additional capability of receiving and transmitting conventional hole-punched cards such as the transportation control and movement document punchcard formats. The MCC uses a display unit in conjunction with the electric typewriter.

(3) Common user telephone is provided at the MCC and at each field office for contact with local users of transport, transport mode operators, and supporting and supported activities.

(4) The computer serving the MCC is equipped to receive and transmit items of information essential to movements management.

(a) The MCC computer has computer-to-computer links with computer centers at
FASCOM, the personnel and administration center of the TASCOM personnel command, and the TASCOM materiel management center (MMC). It is also linked with the Military Traffic Management and Terminal Service (MTMTS) in CONUS.

(b) TMO's may have transceived links to the MCC.

(c) Transceiver facilities will be provided by the appropriate signal operations company supporting the major headquarters of TASCOM. Standard links are used by other units in the TASCOM area. Keyboard inquiry devices and high speed hard copy printers are provided to theater army, TASCOM, and transportation command headquarters.

2-4. Transportation Movements Offices

a. General. The MCC chief is charged with managing the movement capability of the TASCOM transportation system. To obtain effective field coverage of transportation movements, that portion of the COMMZ through which the transportation system runs is divided into transportation movements regions. The number and size of the regions vary with the volume and complexity of movements, the number of critical areas, and the geographical spread of the transportation system. Regional boundaries do not necessarily coincide with political boundaries, nor with geographical boundaries established by other military elements. Branch or district TMO's are established within each region. The RTMO's are responsible to the MCC for controlling and supervising all those movements matters pertaining to that portion of the interzonal transportation system which passes through their respective territorial areas. The district TMO's usually have subareas of responsibility. TMO's may be responsible for the movements activities for a single installation or activity or for a small area.

b. Mission. The mission of the TMO is to act as a coordinator between users and transport mode operators and to assist commanders in carrying out movements, both programed and nonprogramed.

c. Organization. TMO's are organized under their respective TOE to meet anticipated needs and functions over a wide range of conditions; however, each individual office must be staffed to meet the needs of its particular location. Generally, the office will be organized into two primary sections, freight and passenger. The activities of these sections complement the needs of the MCC.

The sections prepare and maintain records and submit reports to higher, adjacent, and lower headquarters on the transportation situation, requirements, and capabilities and the carrying out of movements within their respective areas. These sections receive and process transportation requests from the users of transportation and prepare the worksheets used on movements actions and requests which are used for data processing. They receive and process reports of shipments and perform other duties delegated by the chief of the branch or region to accomplish the functions listed in chapter 7.

d. Capabilities. The capability of each TMO is dependent upon the particular TOE paragraph under which it is organized. Each is capable of providing, within its size and communications limitations, 24-hour supervision, coordination, and monitoring of the movements program for the activity or area which it supports. The TMO is capable of maintaining status information on shipments, investigating and taking necessary action to avoid delays in movements, and preparing movement instructions.

e. Location. The exact site for establishment of a TMO can be effectively selected only after proper analysis of the functions to be performed by the office and after a personal reconnaissance of the transportation and geographic characteristics of the area. The reconnaissance includes the availability of adequate facilities for assigned personnel and of signal communications. A central location which allows close and constant coordination with the installations and units to be served and with transport mode operators is considered ideal.

(1) The movement control agency headquarters commander is responsible for arranging billet and office space and for mess, supply, maintenance, and mail support for the TMO's. Usually, arrangements are made through the RTMO with the area support group in accordance with command procedures. As the team must operate 24 hours each day, consideration must be given to distances and facilities for movement between the office and billet and to providing for meals at other than regular mealtime hours.

(2) If inadequacy of facilities or distances from the job make it impractical to attach TMO personnel to a nearby unit or installation for messing or quartering, local facilities may be used. Use of local facilities must be in accordance with established command policy, and care must
be exercised to assure that the desired standards of adequacy, cleanliness, and performance exist at all times.

(3) Once the office has been located and established, appropriate signs are erected outside the office and at strategic points in the vicinity of the office. The signs will be prepared in accordance with STANAG 2159, Identification of Movements Personnel and Offices (app L) and will be erected in accordance with local standing operating procedures.

Section II. FUNCTIONS

2-5. Theater Army Support Command Movement Control Center

The functional activities of the movement control center (MCC) are carried out by the four divisions (plans and programs, freight movement, passenger movement, and special movement divisions) (fig. 2-1).

a. Plans and Programs Division. To carry out its responsibilities, this division performs the following functions:

(1) Receives, reviews, and analyzes transportation directives issued by higher headquarters; devises, coordinates, and recommends to the chief of the MCC procedures and policies for implementing the directives.

(2) Receives and relays to interested activities intelligence information on the transportation system.

(3) Receives from the other divisions problems dealing with the computer program. Forwards the problems or recommended changes to the computer program to the appropriate agency for resolution and preparation of necessary changes to the program. Results of the program changes are coordinated with other MCC divisions to assure that proper results are obtained from processing of the data.

(4) Determines movement requirements and available transport capabilities.

(5) Determines capabilities of actual and potential users to ship and receive traffic by each mode or a combination of modes.

(6) Analyzes requirements and capabilities.

(7) Prepares and coordinates the movements program.

(8) Publishes the movements program.

(9) Reviews and analyzes program performance data.

(10) Reviews and analyses nonprogramed movements to determine if they are of a recurring nature and should be programed.

(11) As directed, prepares movements plans or annexes in support of logistic or contingency plans.

b. Freight Movement and Passenger Movement Divisions. These divisions primarily acquire and maintain user requirements and capability data and administer and monitor the movements program. In doing this, they recommend policies and establish procedures for the following major movements management actions. Such procedures normally are capable of either manual or automatic data processing application.

(1) Collection and dissemination of requirements and capabilities data. Specific, timely, and accurate movements information is fundamental to effective movements management. Continuous contact must be maintained with every possible source of such information, including user staff agencies and field installations, transport service facilities, and transportation movements offices (TMO's) in the field. The latter are the primary sources of the most current information. DA Form 1322 (Daily Installation Situation Report) also provides current and detailed information.

(2) Establishment of movement release system. This system applies only to the use of transportation resources employed in providing a common-use command-wide or interzonal service. It includes policies designed to permit TMO's the widest possible latitude in making adjustments at the local level and procedures for maintaining close supervision of shipments from request for transportation to delivery at destination. This system is carried out primarily by TMO's in the field through issuance of transportation movement releases (TMR's).
(3) Consolidation of shipments. Shipments are most effectively consolidated by shipping activities. However, the transportation service must provide consolidation and break-bulk distribution service (in addition to that provided by the TASCOM (theater army support command) rear depots) geared to small-lot shipments, normally identified for specific consignees, in order to accomplish its mission. The units to operate the consolidation and break-bulk points will be designated by the TASCOM commander.

(4) Holding in transit. This stops the movement of traffic to eliminate or prevent congestion in the transportation system. Such action is taken only in coordination with receiving agencies and only for the period necessary to alleviate the condition.

(5) Diversion and reconsignment. In connection with the use of military transportation, diversion applies to any change made in the destination or consignee of a shipment during transportation; reconsignment applies to any change made after arrival at destination.

(6) Transferring. This is a change of shipment from one mode to another. Strategically located transfer points permit continuous and expeditious movement of traffic from origin to destination and reduce congestion in the transportation system.

(7) Tracing and expediting. Tracing is locating or confirming a shipment en route. Expediting is speeding its delivery. Both are a joint responsibility of TMO's and mode operators. Details of tracing and expediting responsibilities are contained in paragraph 7-3c and d.

(8) Coordination with Military Airlift Command. The freight movement and passenger movement divisions are the primary contacts for the MCC with the Military Airlift Command (MAC). They are responsible for coordinating channel and special mission airlift for personnel unit, or cargo movements. They coordinate the schedules of Army airlift used in less-than-carload or lateral movement in the TASCOM area with those of the MAC.

c. Special Movement Division. This division is the troubleshooting office for the MCC. It coordinates and monitors those movements requiring exceptional coordination, monitoring, or reporting. Some of the specific functions performed by this division are as follows:

(1) Operating control agencies. The theater trailer control agency and theater trailer control agency maintain running inventories of controlled containers or trailers designed for or customarily employed in movements between the continental United States and the theater. The agencies keep records of the location of each container or trailer. The containers allotted for intratheater use are controlled to prevent unwarranted concentrations in one or two areas with consequent shortage at others and resulting misuse and lack of flexibility.

(2) Allocating the use of scarce special purpose equipment. Certain types of special purpose equipment may have to be allocated by the division to particular movements; for example, heavy duty deep-well or high pressure tank rail cars.

(3) Providing a reporting system on use of the capabilities of the aviation service support companies assigned to the transportation command.

(4) Coordinating and monitoring large unit movements and accompanying equipment.

(5) Coordinating and monitoring shipments of chemical, biological, and etiological agents and radioactive material that are required by AR 740–32 to be accompanied by technical escort (munitions safety control team) personnel.

2–6. Transportation Movements Offices

Movement control officers in charge of regional, district, or branch TMO's are responsible for the following functions within their assigned areas:

a. To act as field representative of the chief of the MCC.

b. To maintain liaison among the transport services, shippers, and receivers.

c. To keep informed of and advise the MCC on location of units and installations, transportation requirements, availability of modes of transport, capabilities of installations to ship and receive, and the general transportation movements situation in their areas.

d. To make recommendations on selection of sites for supply activities, truckheads, railheads, airheads, and inland waterway terminals, taking into consideration the facilities for handling supplies, adjacent transportation networks, and storage space.

e. To advise the commanders of units and service installations on transportation matters.

f. To assist in carrying out the movements program and directives from higher headquarters pertaining to movement of personnel and freight.
g. To process requests and arrange for movement of personnel and materiel.

h. To enforce movement priorities and to investigate delays in the movement of personnel or materiel.

i. To take action to prevent congestion and assure the uninterrupted movement of personnel and materiel.

j. To receive, process, and forward requests and replies to requests for movement over controlled routes or for other highway clearance.

k. To exercise on-the-spot management of the movement of personnel and materiel in accordance with the movements program.

l. To carry out plans and schedules for transporting passengers by any mode, to verify the preparation of itineraries, and to arrange for reservations and approval of requests for transportation as required.

m. To direct compilation of records, reports, and other information as required and to submit necessary reports or information to higher, adjacent, and lower headquarters on the transportation situation, requirements, and performance.

n. To assure that regulations pertaining to documenting, marking, loading, blocking, and bracing of shipments are complied with.

Section III. RELATIONSHIPS OF THE MOVEMENT CONTROL CENTER

2-7. General

The movement control center (MCC) is a subordinate activity of the transportation command and an element of the staff of the assistant chief of staff (ACofS), movements. In an emergency, the MCC and the ACofS, movements staff section, are alternates for each other. The MCC will, through its computer and communications capabilities, be a primary source of information to the commander for planning and controlling the operations of the transportation system.

a. The MCC provides for coordinating transport activities with those of supply, maintenance, and personnel. The transport activities may include units providing other than general use transportation when authorized and directed by the TASCOM (theater army support command) commander.

b. The MCC is responsible for providing a smooth interface of TASCOM movements actions with those of the continental United States (CONUS) and the field army support command (FASCOM) to assure that personnel and materiel are received in the theater and delivered to destination with minimum delay. In this connection, the TASCOM MCC is responsible for coordinating and monitoring all throughput shipments originating in either the communications zone (COMMZ) or CONUS from their origin to final destination.

c. The MCC's computer capability must interface with that of the materiel management center (MCC) so that, when a supply action is taken by the MCC, the information is immediately available to the MCC and action can be initiated to secure the necessary transport equipment and road, rail, water, or air space over which the transport will move.

d. In view of the foregoing, it is essential that close working relationships be established between the MCC and CONUS transportation activities, the FASCOM MCC, the transportation command and its subordinate transport units, and the supply and maintenance command and its MMC and subordinate depots.

2-8. Relationships with CONUS Activities

a. The MCC maintains close functional relationships with CONUS transportation activities, particularly with the Military Traffic Management and Terminal Service (MTMTS) and its subordinate terminals. The exchange of information and interface of movements is done through preparing and transmitting information, documents, and reports required by military standard transportation and movement procedures (MILSTAMP) and through adhering to the procedures outlined therein.

b. A free flow of information is encouraged to assure that the movements systems of CONUS activities mesh with those of the theater. Such information would include desired changes in port designators for individual shipping address codes as units displace or changes occur in the transportation system. (Formal action on these changes is through TASCOM to the Defense Supply Agency.) Because of its unique position and its communications facilities, the MCC is able to
inform the commander of the transportation command on changed port capabilities (ability to handle particular commodities, such as POL (petroleum, oil, and lubricants), ammunition, or heavy lifts, or increases or decreases in daily tonnage capabilities) and other factors which influence either the CONUS or transoceanic routing of shipments. During peacetime, this information includes the theater delivery costs from various ports of entry to final destinations for specific commodities so that the lowest overall cost, consistent with service, accrues to the Government. The same type of information is furnished the transportation command by MTMTS so that the MCC can plan retrograde (export) shipments.

2-9. Relationships with the TASCOM Staff

a. The TASCOM general staff has access to the MCC through its keyboard inquiry device linked to the MCC computer; however, normally data and reports required by TASCOM are summarized and furnished by the transportation command.

b. The commander of the transportation command and his staff rely upon the MCC to obtain estimates of transportation lift requirements necessary to form and operate a transportation system and, during operation, to furnish estimates of the ability of the system to support tactical and logistic plans. As a major subordinate element of the transportation command, the MCC has direct access to the staff of the transportation command for coordination, liaison, and advice.

c. The TASCOM ACofS, movements, has staff responsibility for developing, publishing, and disseminating directives that clearly outline procedures for assuring the smooth functioning of the transportation movements system throughout the theater. The directives usually are prepared by the transportation command ACofS, movements, and his staff. Typical reports prepare for transportation movements are contained in appendix B.

2-10. Relationships with Users of Transportation

a. High-volume personnel movements in the TASCOM area are generated by the medical, military police, personnel replacement, and civil affairs activities. The primary shipping and receiving agencies for cargo are normally the terminals (water and air) which receive volume shipments from CONUS and the field depots in the COMMZ rear area.

b. The MMC, personnel and administration center, and when necessary, medical regulating activities submit their movement requirements to the MCC. The MCC sees that the requirements are fitted into the overall program in accordance with command priorities.

2-11. Relationships with the Transport Services

a. The MCC provides the transport services with movement commitments and estimates of future workloads. It frees transport service personnel of duties not concerned with mode and facility operations by dealing with users of transportation in behalf of the transport service. Since the MCC allocates movements to all modes of transport, it can allocate movements to the transport mode best adapted for those movements and can coordinate available modes to provide continuity of movement at points of transfer. To perform its mission, the transport service must keep the MCC advised of current and future capabilities of the transport service and must assist in reporting the overall progress of movements.

b. To carry out their mutual responsibilities, both formal and informal relationships exist between movements control personnel and mode operators. Formal relationships are maintained through the transportation command and generally consist of reports and plans exchanged between the two in accordance with command directives. These normally will cover capability reports, traffic analysis reports, and emergency reports (on occurrences which might cause curtailment of service over any portion of the transportation system) submitted by the mode of other transportation operators.

c. Close working relationships must exist at all levels of the movements, transport, and other transportation activities. Daily coordination of requirements for transport for specific movements, equipment spotting information, and actions resulting from increases or decreases of transport or service capability are types of actions normally handled by direct liaison between the operator and the transportation movements offices (TMO’s) and users.

2-12. Other External Relationships

a. Area Support Command.

(1) The normal relationship between the MCC and the area support command is that of supporter and supported. The area support command’s subordinate units are responsible for pro-
providing direct support to the MCC and its field TMO's in such areas as billeting, mess, maintenance, and personnel administration. Similarly, if units or activities of the area support command require transport or highway regulation assistance, such requirements are placed on the local TMO or regional TMO, as appropriate.

(2) The area support groups may, in specific situations directed by TASCOM, assume control of all TASCOM functions in the group area. Such situations may arise during rear area protection activities. When such action is directed, the senior officer of each TASCOM mission command located in the area assumes control of mission activities under area support group control. Thus a motor transport battalion commander may assume control of terminal transfer companies and TMO's in an area during the emergency. He would then be responsible to the area support group commander for all transportation command activities in the area, including movement control. During these emergencies, personnel and supply movements continue through the group area under group control to the adjacent area support group. Also during these emergencies, preselected stocks in both rear and forward depots are placed in movement by depots. The MCC and TMO's, in these instances, can be very helpful to the area commander. Their experience in movements management, coupled with their access to information on the location of all shipments en route and their knowledge of the locations of units, the transportation system, and road nets and conditions in the area, will enable the area group commander to more efficiently use available transportation in carrying out his mission.

b. Medical Command. In addition to its normal relationships with the medical command as a user of transportation, the MCC coordinates with the medical command and the rail transport service for train paths and schedules for ambulance trains. It may also be required to provide a liaison team to the command to assist in the movement planning required in conjunction with evacuating patients and moving medical units.

c. Military Police.

(1) Military police units engaged in traffic control activities are used by both the MCC and the highway traffic headquarters. Certain military police traffic control posts (TCP's) are designated to perform highway regulation duties in conjunction with their traffic control functions. When instructed by the MCC or TMO, these TCP's carry out diversions, reconsignments, and reroutings or hold in-transit vehicles engaged in transporting personnel or materiel. They report, through appropriate channels, the passing of all vehicles or convoys to the MCC. The MCC uses the passing reports to update its in-transit inventory file.

(2) The military police place requirements on the MCC for moving prisoners of war. The MCC coordinates the movements, including stops for meals, rest, and exercise.

d. Petroleum Suppliers. The MCC is responsible for planning, programing, and monitoring the movement of bulk or packaged POL by all available military and commercial transport capabilities, except pipeline. However, these movements must be planned jointly with the petroleum suppliers responsible for operating the pipelines to assure that the most efficient use is made of all available capacity. This planning includes the determination of origin, destination, and mode for the various products; where facilities will be established to transfer products from one mode to another; where decanting facilities will be established to permit movement of POL as a containerized product; and contingency actions to be taken in the event of disruption of any transporting service. To assure that all shippers and receivers are aware of the products they are to receive and the mode by which they will be delivered, pipeline movements are included in the manually prepared movements program.

e. Air Force. The relationships of the MCC with the Air Force may be divided into three categories: the Air Force as a user of Army transport, the Air Force as the operator of an air line of communication (ALOC), and Air Force airlift elements attached to Army elements. These relationships, described below, do not affect the normal relationships or functions of TMO's or ATCO's (air traffic coordinating office(s)) described in chapter 7.

(1) As a user of the Army transportation system, the Air Force normally stations a liaison team with the Army MCC. This team furnishes the MCC with the Air Force requirements for transport, diversion, or reconsignment of personnel or cargo of Air Force interest being transported by surface transportation, either inter-theater or intratheater. It also keeps the Air Force component commander advised of the status of surface movements of Air Force interest.

(2) As the operator of an ALOC, the Air
Force or Military Airlift Command provides both intertheater and intratheater airlift. To coordinate the use of the Army-allocated portion of this lift, the MCC places an airlift coordinating office (ALCO) at the airlift control center (normally located in the Air Force component command post). The ALCO is responsible for relaying and coordinating Army requirements for both channel and special mission airlift and for coordinating the diversion of air-transported personnel or materiel of Army interest.

(3) When Air Force tactical airlift elements are attached to or placed under the operational control of an Army element, the relationships are the same as those described for the relationships with the transport services as outlined in paragraph 2-11.

Section IV. RELATIONSHIPS OF THE TRANSPORTATION MOVEMENTS OFFICES

2-13. General

The transportation movements offices (TMO's) provided the interface between users, operator, and the movement control system. Each TMO is commanded by a movements officer. The mission of the TMO's is to assist the commander in executing the movement of personnel and materiel. To this end, they contribute to the development of procedures, documents, and practices to facilitate movements. TMO's are the primary point of contact for users of transportation. It acts in an advisory capacity to users in advance planning and coordinating documentation and movement of materiel and personnel into the transportation system. The TMO receives requests from users for the transportation that has been allocated for their use by the movements program and arranges with the mode operators for placement of transport equipment to meet programmed requirements. The TMO is also the point of contact for nonprogramed movements. The establishment of a close working relationship between TMO and user within guidelines and policies established by the command will facilitate the work of both.

2-16. Relationships with the Transport Services

The TMO is the office from which the transport operating units (as distinguished from command headquarters) normally receive equipment spotting requirements and detailed information on programed and nonprogramed movements. The mode operators normally are instructed to refuse any shipments unless they receive a transportation release from the appropriate TMO. Furthermore, they should not divert, reconsign, or perform other transit operations without proper movement control authority. Local procedures are established to assure smooth functioning of the transit services offered to users. It is emphasized that the principal responsibility of the TMO is to place requirements on mode operators for the moving of personnel and materiel. The TMO does not determine what routes will be followed (though this may be furnished by the highway traffic headquarters and relayed to a motor transport unit at the time the requirement is placed with it), nor what equipment will be used in making the movement.
Section V. HIGHWAY REGULATION

2-17. General
Highway traffic regulation is described in chapter 6. Highway traffic is regulated by establishing a traffic headquarters with subordinate highway regulating points in the field to carry out the traffic regulation plan developed by the headquarters. The traffic control function performed by military police supports highway traffic regulation.

2-18. Organization of the Highway Traffic Headquarters
The highway traffic headquarters operates under the control of the transportation command ACoF, movements, and normally is collocated with the MCC. A highway plans officer is the chief of the traffic headquarters, and other transportation and military police personnel are assigned to complete the staff of the headquarters. Representatives for other services are made available when required for coordination in matters of interest to their respective offices.

2-19. Highway Regulation Operations

a. In the communication zone, highway regulation normally is restricted to the main supply routes (MSR's) and to certain essential feeder routes. These routes are designated controlled routes (a route, the use of which is subject to traffic or movement restrictions (STANAG 2041, app G)), and any unit or activity requiring use of the routes must obtain clearance for such use from the highway traffic headquarters.

b. Because of their limited requirement for highway regulation, area support groups in the theater army support command area normally do not have a highway regulation function. However, if highway regulation is required, the regional transportation movements office having responsibility for the area will furnish advice and assistance.
CHAPTER 3
FIELD ARMY SUPPORT COMMAND TRANSPORTATION MOVEMENTS MANAGEMENT

Section I. ORGANIZATION

3-1. General

a. A movement control center (MCC) is established as a staff element of the field army support command (FASCOM) and of each of the corps support brigades to provide an agency for determining, coordinating, and analyzing transportation movement requirements and capabilities. These functions are essentially the same as those of the theater army support command (TASCOM) MCC but are limited by the echelon of command to which assigned and the resources available for employment.

b. The FASCOM MCC, as the senior movements activity of FASCOM, exercises technical supervision over the activities of the corps support brigade MCC's, thus carrying out the first principle of movements—that control of movements will be centralized at the highest level at which it can be efficiently exercised. In the case of the field army, it is the FASCOM commander who is responsible for providing integrated logistical support.

c. The organizations of the staffs, MCC's, and transportation movements offices (TMO's) of FASCOM and the support brigades are essentially the same, though differences in numbers of personnel and teams exist due to differences in workloads of the units. For this reason, the remainder of this section applies generally to both FASCOM and the support brigades. Any differences in the two units will be delineated.

3-2. General Staff Sections

a. The transportation functions of FASCOM and the support brigades are supervised by specialists assigned to the general staff section of the assistant chief of staff (ACofS), movements. The primary duties of these specialists are similar to those outlined in paragraph 2-1 for the TASCOM ACofS, movements. These specialists also have the responsibility of providing transportation advice and planning for other general staff sections of the headquarters, as required.

b. The ACofS, movements, has general staff supervision of—

1. Transport mode operations.
2. Movements management, excluding bulk POL (petroleum, oil, and lubricants) by pipeline (para 2-12d).
3. Terminal transfer operations.
4. Highway regulation activities.
5. Provision of detailed data to support current and future plans for developing the transportation system in the field army area.
6. Traffic control activities.
7. Classification of routes.

c. The ACofS, movements, in carrying out his responsibilities to the commander, performs the following duties:

1. Advises the commander on effective use of the transport services and effective operations of those elements of the shipping and receiving services that have a direct bearing on fulfilling the commander's movement requirements.
2. Based on policy guidance from higher headquarters, develops movements management policies for application to the command in which he is assigned.
3. Prepares implementing directives to carry out approved policies.
4. Recommends allocation of transport capability for use in rear area protection operations, if applicable.
5. (FASCOM) exercises staff supervision over the operations of the FASCOM transportation brigade and keeps advised of the status and operations of the corps support brigade truck battalions.
6. (Support brigade) exercises staff supervision over the operations of the corps support brigade's motor transport battalion and any other transport or terminal units which may be assigned or attached.
7. Exercises staff supervision over the
MCC's operation (the MCC actually becomes an element of his staff).

(8) Participates in tactical, logistic, and contingency planning as required. (Command and day-to-day planning for employing transport and/or terminal service units is a responsibility of transportation brigade (in FASCOM) and motor transport battalion (in support brigade) commanders.)

(9) Maintains liaison with appropriate U.S. and allied nation commands.

(10) Establishes the command combined movements center.

(11) Establishes the command traffic headquarters and exercises staff supervision over the command's traffic control activities.

b. Missions. The missions of each of the movement control units are—

(1) To command and supervise attached or assigned units and teams engaged in movement control and highway regulation.

(2) To provide movements management for moving personnel and materiel (except bulk POL) within, into, or out of the area of responsibility.

(3) To provide highway regulation services within the command's area of jurisdiction.

(4) To maintain liaison, as required, with transportation elements of other U.S. forces and with allied and host nation transportation agencies.

c. Organization. The movement control company (FASCOM) (fig. 3–1) and the movement control company (corps support brigade) (fig. 3–2) are similar in structure. They are organized along functional lines with a headquarters and task elements. The senior movement control officer assigned to the MCC is also the unit commander. All elements of the company are attached to adjacent units for administrative support, including personnel administration, supply, mess, and maintenance.

(1) The company headquarters and the MCC are collocated. The senior movement control officer commands all attached teams; however, operational control over the highway traffic headquarters and the highway regulating point teams is maintained by the ACofS, movements. The administrative officer assigned to the MCC commands the company headquarters, which is the housekeeping element, and provides limited administrative support to all elements of the unit.

(2) The MCC provides the organization for planning and monitoring the execution of the command movements program, advising on transportation movements matters, and maintaining information and records on the status of transportation movements activities throughout the command.

(3) The highway plans officer of the highway traffic headquarters is second in command of the movement control company, in addition to being in charge of the highway traffic headquarters. The highway traffic headquarters provides personnel to plan and regulate highway traffic movements in the field army service area or corps support brigade areas as appropriate.

(4) TMO teams A, B, or C are under the operational control of the MCC. They are employed at critical locations throughout the field army service area (or corps area, as appropriate) to coordinate and monitor the movements program of the command.

(5) Highway regulating point teams are under the operational control of the highway traffic headquarters. They are stationed at critical locations on the highway net to carry out the traffic regulating plan.

d. Capabilities. The movement control company is capable of providing a central organization and
field offices necessary for centralized movement control and highway regulating services in support of a field army or corps, as appropriate.

**e. Location.** The MCC is an element of the staff of the ACofS, movements, but it is not necessarily located with the staff section. It is, however, located sufficiently close that trips to and from the command headquarters and the materiel management center (MMC), FASCOM or corps support brigades, are quickly made by surface transportation. The highway traffic headquarters provides planning and coordination for both tactical and logistical highway movements. It is located near the MCC; however, its services are quickly available to the army or corps G3/G4 sections (as appropriate) through the availability of automatic data processing (ADP) equipment and advanced communications.
3-4. Movement Control Centers

a. General. The MCC has primary responsibility for initiating and performing the necessary planning, programing, and regulative actions essential to transportation movements management in support of the field army or corps, as appropriate. As the focal point for these activities, the FASCOM MCC is responsible for coordinating the movement of TASCOM transport operating in the field army area, for coordinating the retrograde movement of cargo from the field army area, and for receiving and relaying information on the use of vehicles or containers employed in intertheater transportation of cargo (for example, roll-on/roll-off trailers and CONEX (container express) containers).

b. Mission. The mission of the MCC is to provide transportation movements management for the command to which assigned. The emphasis at FASCOM and corps support brigade level is on providing effective combat service support of current operations. The MCC's are charged with assuring timely responsiveness and maximum use of available transport capability. They obtain the desired level of response and use principally through integrating and regulating transport means and facilities.

c. Organization. The MCC is organized with a control section, a movement plans and programs section, and freight of passenger sections.

(1) The control section consists of the senior movement control officer, the deputy movement control officer, the administrative officer, and the administrative and communications enlisted personnel of the center. The senior movement control officer is the operating head of the center and plans, supervises, and directs the activities therein. The deputy movement control officer normally acts as the chief of the combined movements center, an activity established to coordinate command requirements with those of other commands and allied and host nations. (See para 3-11 for a discussion of the functions of the combined movements center.)

(2) The plans and programs section is responsible for developing, coordinating, publishing, and distributing the movements program and, as directed, for preparing movements plans and annexes in support of logistic or contingency plans. This section also recommends changes to the applicable computer programs to adapt them to conditions existing in the field army area.

(3) The passenger and freight movement sections monitor the execution of the movements program and manually process those actions outside ADP machine parameters.

d. Capabilities. The MCC is capable of providing transportation movements management in support of field army or corps movements and of receiving and relaying information on the status of controlled containers or trailers.

e. Location. The MCC is located as outlined in paragraph 3-3 for the movements control units.

f. Communications. The communications available to the FASCOM and support brigade MCC's are essentially the same as those provided to the TASCOM MCC as described in paragraph 2-3. The primary difference is that, whereas the FASCOM MCC has its own computer and system for communicating with it, the FASCOM and support brigade MCC's share in the capability of the centralized computer center of the command. Information placed in the computer may go through a buffering device that permits the machine to receive information and hold it until such time as the information can be acted upon. The speed with which the machine will act on the information it receives from the MCC will be determined by priorities for machine use established by the commander and programed into the computer.

3-5. Transportation Movements Offices

The reason for establishment of TMO's in the army service area, their mission, organization, capabilities, location, and communications are essential the same as described for the TMO's of the TASCOM movement control agency mentioned in paragraph 2-4. The major change is that the FASCOM movement control company does not have regional transportation movements offices (RTMO's). Therefore, when it is necessary to divide the army service area into regions of responsibility, TMO A teams may perform RTMO functions.

3-6. Combined Movements Center

a. General. When U.S. Army forces are participating in a combined operation where a status of forces or other international agreement between the U.S. Government and the host nation is in effect, the senior Army commander (theater army) normally directs the establishment of one or more combined movements centers.

b. Mission. The mission of a combined movements center is to coordinate the use of highway
routes and to allocate common user transportation among the interested nations. It provides a common meeting ground where any conflicts between movement requirements of the interested nations can be resolved and where transportation movements and highway regulation procedures can be standardized. The combined movements center does not routinely become involved in day-to-day operations; such operations are carried out at the lowest possible level, normally by the field TMO's and RTMO's.

c. Organization.

(1) In the field army, the combined movements center is composed of members of the FASCOM MCC and highway traffic headquarters, liaison teams from the TASCOM MCC and highway traffic headquarters, and representatives from allied or host nation transportation movements organizations.

(2) The host nation has a requirement to support its own forces, to support the civilian economy, and to maintain its industry in support of its own and allied efforts and thus has an interest in allocation of transportation resources and use of the road network. However, unless specified by other agreement, the requirements of the field army are paramount in its area and the field army commander retains control over time and space usage of highways in the field army area. This control is exercised through the combined movements center.

d. Location. The combined movements center is located at a site designated by the field army commander. Normally, it will be close to the FASCOM MCC and highway traffic headquarters.

Section II. FUNCTIONS

3–7. General

The functions of the movement control centers (MCC's) of the field army support command (FASCOM) and the support brigades generally parallel those of the theater army support command (TASCOM) MCC. The functions are divided among the movement plans and programs, passenger, and freight sections in the same manner that they are divided among the respective divisions in the TASCOM MCC. Additionally, the freight and passenger sections of FASCOM and support brigade MCC's carry out those functions that are performed in the TASCOM MCC by the special movement division.

3–8. Field Army Support Command Movement Control Center

a. The FASCOM MCC implements movements management policies and regulations established by the FASCOM headquarters and, when so directed, establishes regulating policies and procedures. It prepares the FASCOM movements program, based on movement requirements submitted by field army and FASCOM agencies and on information from the TASCOM MCC as to personnel and materiel that are being shipped from the communications zone (COMMZ) to the field army area.

b. In accordance with policies of the commander, the FASCOM MCC allocates army-wide transport capabilities of the FASCOM transportation brigade and those facilities of the TASCOM interzonal transportation service or of any other source allocated to FASCOM for its use. These facilities may, under certain circumstances, be composed of rail or inland waterway capability or may include a portion of the army allocation of intratheater Air Force airlift capability. The use of intertheater airlift operating into or out of the field army area will be coordinated with the TASCOM MCC through the combined movements center.

c. The FASCOM MCC is responsible for planning, coordinating, and monitoring all throughput shipments originating in the army service area from their origin to final destination.

3–9. Support Brigade Movement Control Centers

a. The support brigade MCC has primary responsibility for implementing those portions of the FASCOM movements program requiring shipment by support brigade transportation and for performing the necessary planning, programing, and monitoring essential to transportation movements management in support of the corps.

b. When preparing the support brigade movements program, the MCC includes those portions of the FASCOM movements program that pertain to shipments from installations within the corps area or that use transport capability of the corps support brigade. However, most of the movements with which the corps support brigade MCC will be concerned will be movements which, because of
the time element, cannot be shipped from origins in the army rear area or the COMMZ. The urgency of these movements requires that a flexible transportation system be maintained and dictates close liaison with FASCOM and field transportation movement offices (TMO's) since the air transport capability of FASCOM will frequently be called upon to execute the movement. Though the FASCOM Army transport aviation units may be physically located in the corps area, the FASCOM MCC may retain allocation authority for their transport capabilities.

c. The corps support brigade MCC allocates the capability of transport units assigned or attached to the corps support brigade. The attached capabilities may include, under certain circumstances, truck units attached from the FASCOM transportation brigade for a particular operation. Interzonal transport of the TASCOM or Army-allocated intratheater Air Force airlift in the corps area may be made available on a mission basis by the FASCOM MCC after coordination with the TASCOM MCC. Normally, such transport will be used for retrograde movement of materiel and for evacuation of wounded, refugees, or prisoners from the corps area.

d. When the army rear support brigade is provided transportation over which it has allotment authority, movements management will be provided to the brigade by the FASCOM, MCC and its subordinate TMO's.

3-10. Transportation Movements Offices

The general functions of TMO's in the TASCOM movements control agency as outlined in paragraph 2-6 also apply to the TMO's attached or assigned to the FASCOM and corps support brigade movement control units.

3-11. Combined Movements Center

a. The combined movements center establishes general procedures to be followed and the forms to be used (unless already specified by international agreement) in procuring allied military transport capability, host nation civilian transport capability, and road space.

b. The following are general guidelines for U.S. forces participating in combined transportation movements and highway traffic regulation operations. In applying the guidelines, due consideration is given to the logistic and tactical situation, the geography, and the capabilities of the transportation systems existing in the theater.

(1) The MCC chiefs retain operational control over movement control personnel assigned or attached to the center from their respective organizations.

(2) The TASCOM and FASCOM MCC's and their field offices act as agents for one another in those areas where either one or the other, as applicable, is not present. Actions taken as an agent are coordinated with the responsible movement control element as soon as possible.

(3) Priorities established by the field army commander govern the movement of personnel and materiel of interest to the field army originating in areas not under the field army commander's control. Such moves are executed by the appropriate agency of the combined movements center.

(4) The TASCOM MCC is the agency through which U.S. requirements for host or allied nation rail transport assistance normally will be placed. However, for emergency movements by rail in the forward zone, the FASCOM field TMO places requirements directly on the combined movements center.

(5) The FASCOM MCC places requests directly on the host nation military forces counterparts within the combined movements center for highway transport support for combat support missions.

(6) The FASCOM MCC places requirements on the TASCOM MCC for—

(a) U.S. motor transport when field army transport is insufficient to meet requirements.

(b) Host or allied nation highway transport when there is insufficient field army transport to meet requirements.

(c) Air movement by allocated U.S. Air Force airlift.

(7) Requests for clearance of highway movement originating and terminating within the field army area are placed on the FASCOM highway traffic headquarters.

(8) Requests for clearance of highway movement originating in one area (support brigade, FASCOM, or TASCOM) and terminating in another will be placed with the highway traffic headquarters responsible for the area of origin. That traffic headquarters will coordinate with the highway traffic headquarters responsible for any intermediate area and for the destination area, and with representatives of host nations through which the movement passes.
Section III. RELATIONSHIPS

3-12. General
The movement control centers (MCC’s) at the field army support command (FASCOM) and the support brigades are staff elements of their respective commands. As staff elements, they perform staff actions of planning, coordinating, expediting, monitoring, and recommending; they do not command. For this reason, their relationships with users of the transportation service and with transport and terminal service units are similar to those of the theater army support command (TASCOM) MCC with users and transport and terminal units in the communications zone (COMMZ).

3-13. Relationships with the Theater Army Support Command
Throughput of personnel and materiel from TASCOM ports, depots, and personnel replacement activities to general support and direct support activities in the army and corps areas and the division support commands requires that close working relationships be established with the TASCOM MCC and that movements procedures provide for a smooth interface of transportation activities. Formal interface is achieved by directives and procedures published in the name of the theater or theater army commander and by military standard transportation and movement procedures (MILSTAMP). However, because of the short transit time and the presence of large numbers of TASCOM vehicles in the army area, close technical cooperation and direct communication are necessary among all MCC’s.

a. The FASCOM MCC participates in the TASCOM movements planning activity to the extent that—

(1) The FASCOM MCC furnishes the field army commander’s priorities for consideration by the TASCOM MCC in planning personnel and materiel movements of interest to the field army originating in areas not under control of the field army commander.

(2) The FASCOM MCC determines and relays to the TASCOM MCC the capabilities of activities in the field army area to accept throughput shipments.

b. Communication between the TASCOM and FASCOM MCC is provided by association of their representatives in the combined movements center, by computer-to-computer links between the TASCOM MCC’s computer and the FASCOM centralized computer facility, and by telephone common user circuits of the theater of operations Army signal command.

c. Throughput distribution of the bulk of normal daily supply requirements to divisions and direct support units supporting nondivisional troops may necessitate positioning additional terminal transfer and truck units in the army service or corps area. As required, the movements programming and reporting activities of TASCOM and FASCOM will be coordinated.

3-14. Relationships Between Movement Control Centers in Field Army Area
a. Because of the placement of primary field army responsibility for transportation movements management at FASCOM, the FASCOM MCC exercises technical supervision over movements management activities of the corps support brigade MCC’s.

b. Normal movements programs published by FASCOM will specify which cargo or personnel are to be transported by transport elements of the corps support brigade and which will be transported by the army-wide transport service. Normally, corps support brigade capabilities will not be programmed for support of elements outside the corps area, nor will the FASCOM movements program specify the mode or unit of corps support brigade transport to be used if more than one mode is available. On occasions when a particular corps’ requirements for movement of personnel and materiel exceed the combined capabilities of the corps support brigade and army-wide transportation service (for example, when one corps is heavily involved in a tactical effort which must be supported), the FASCOM MCC may program a portion of the lift requirement to be accomplished by the resources of another support brigade; or it may recommend the temporary attachment of transport units from one support brigade to another or to the army-wide transportation service. Such actions require the FASCOM commander’s approval.

c. Corps support brigade movements programs are coordinated with the TASCOM and FASCOM movements programs and are based on movement requirements received from the staffs or from support brigade supply and personnel replacement activities. Generally, the program will be short range and directed primarily to the support of current and short-range plans.
3-17. External Relationships

a. Support Groups. The support groups in the field army area do not have organic truck units for movement of supplies or personnel in direct support of the units which they serve. Thus, they secure transportation support through the transportation movements offices and MCC's for local distribution and for general support activities. Priorities established by the commander will govern allocation of available transport to the three types of activities.

b. Military Police Units. The relationships between military police units engaged in traffic control in the field army area and the MCC's at FASCOM and the support brigades are the same as outlined in paragraph 2-12c for relations within the TASCOM area.

c. Petroleum Suppliers. In the field army area, the petroleum supply battalion is responsible for distributing bulk POL by pipeline and motor transport. Therefore, unless FASCOM has an allocated rail capability including tank cars, the MCC may not enter into the programing of bulk POL. (The advantages of including POL distribution in the movements program are outlined in para 2-12d). However, as the same types of truck tractors are used for moving the stake and platform trailers of the motor transport battalions and the tank trailers of the petroleum service, the MCC may allocate tractors to the petroleum service when priorities warrant and when, due to maintenance or other causes, the petroleum service has an insufficient number of operable truck tractors.

Section IV. HIGHWAY REGULATION

3-18. General

Highway regulation is a responsibility of the commander having area jurisdiction; it is carried out by planning, routing, and scheduling movements on the available road net in accordance with priorities established by the commander. Within the field army, highway regulation is achieved by establishing traffic headquarters at division, support brigade, and field army support command (FASCOM) levels.

3-19. Organization

The highway traffic headquarters at the support brigades and the FASCOM are elements of the movement control company and operate under the control of the assistant chief of staff, movements, of their respective commands. Each of the headquarters contains a highway plans officer, a highway traffic engineer, a traffic control officer, and enlisted specialists for highway operations and traffic control. Representatives for construction, maintenance, and communication-electronic support are provided to the traffic headquarters by the appropriate command when required for coordination in matters that are the primary responsibility of their respective offices.

3-20. Highway Regulation Operations

a. The traffic headquarters conducts its operations in the name of the commander. Coordination between traffic headquarters therefore generally
Highway Traffic Headquarters

Traffic Officer

Civil
Eng Rep
Trans Aff Rep
Signal Maint Rep
NP Rep

Engineer Service
Conducts road and bridge reconnaissance.
Procures or prepares road maps.
Procures or prepares costs and maintains signs and route markers.
Procures or prepares and maintains other control and directional devices.
Controls traffic and posts signs installs warning devices, etc., where construction work is being done.
Posts bridges and tunnels.

Signal Service
Provides and maintains telephone, teletypewriter, radio, telegraph or other signal service required.

Maintenance Service
Provides direct support, general support, and depot maintenance.

Military Police Service
Prepares and posts temporary signs (warning, regulatory, and guide) in emergencies and in combat operations when the situation is such that the engineers cannot prepare and post all the necessary signs.
Prepares the traffic control plan.
Provides highway traffic control.
Provides local rerouting in emergencies.
Provides information and direction along routes.
Reports damage to roads or other obstructions.
Recommend policies.
Installs other traffic and directional devices in emergencies and in combat operations when the situation is such that the engineers cannot install all the necessary devices.

Civil Affairs
Coordinates requirements of civilian interests for use of road net.
Advises on routes where refugee movement may affect military traffic.

Figure 3-8. Coordination actions within a traffic headquarters.
parallels command channels but, to reduce reaction time, direct communication between adjacent headquarters normally is authorized.

b. The traffic headquarters depends upon information, recommendations, and services from other agencies. Information and recommended actions pertaining to personnel, intelligence, tactical and logistic plans, and civil affairs are supplied by the appropriate general staff section.

c. The overall plan for highway regulation is formulated by the traffic headquarters and is coordinated with other staff agencies as shown in figure 3–3. The extent of regulation exercised by traffic headquarters depends on the amount of movement expected and the capacity of the road network. If little movement is anticipated, organizational control may suffice; if heavy movement is foreseen, the traffic headquarters must prepare movement instructions. The types of movements normally scheduled by traffic headquarters include, but are not limited to, convoys, oversize vehicles, overweight vehicles, and road movement of troops on foot.

d. A comprehensive discussion of highway regulations, of functions of a traffic headquarters, and of forms and techniques used in highway regulation is contained in chapter 6.
CHAPTER 4

TRANSPORTATION MOVEMENTS MANAGEMENT IN A CORPS SUPPORT COMMAND

4-1. General

When a corps is detached from the field army for a separate mission (separate corps) or a corps-size element is the extent of the forces in a particular area (independent corps), a corps support command (COSCOM) is formed. The corps support brigade organization readily lends itself to the formation of a COSCOM and is used as a nucleus for this organization. The support brigade headquarters is patterned after the field army support command (FASCOM) headquarters to provide a command organization for the COSCOM, and the field army or communications zone (COMMZ) type services, as appropriate, are attached as required to make the organization self-sustaining.

a. When the force is operating as a separate corps, it is assumed to have the status of a field army and reports to the theater commander. A COMMZ or similarly functioning organization also responds to the theater army commander.

b. When the force is operating as an independent corps, it is assumed to have the status of a theater army, and the COSCOM is responsible for all combat service support activities, including theater base.

4-2. Organization

The organizations of the staffs, the movement control company (FASCOM), the movements control center (MCC) (FASCOM), the highway traffic headquarters, and the transportation movements offices (TMO’s) are described in chapter 3. This basic organization remains constant whether the COSCOM is operating in support of a separate or an independent corps. The MCC is an element of the staff of the assistant chief of staff (ACofS), movements, and the highway traffic headquarters operates under the supervision of that staff section. The building block principle upon which the movement control company is structured facilitates addition or deletion of teams, as required, by modification TOE action to provide adequate field coverage of COSCOM area and activities. When operating in an independent corps situation, the attachment of a TMO(s) to the MCC may be required to cover the additional planning, coordinating, and controlling actions inherent in this situation. Such actions include liaison with the continental United States (CONUS) transportation activities, representation on joint or combined boards or committees, port clearance planning, preparation and maintenance of the theater facilities and service guide, operation of CONEX (container express) and trailer control activities, and preparation and distribution of theater publications pertaining to transportation movements policies and procedures and to documentation of shipments.

4-3. Functions of the Movement Control Center

a. Separate COSCOM. When operating in a separate COSCOM, the functions of the MCC are essentially the same as those prescribed for the FASCOM MCC (para 3–8). The MCC receives theater guidance for movements, prepares necessary implementing instructions for applying the guidance within COSCOM, and monitors the application throughout the corps’ area of responsibility. The COSCOM MCC bases its movements program on those prepared by COMMZ and on supply and replacement requirements generated within COSCOM. Inasmuch as the COSCOM MCC is providing the movements control support which was handled by the support brigades’ MCC’s in the field army organization, it provides movements management in support of divisions, as well as the direct and general support activities in the COSCOM area.

b. Independent COSCOM. When operating in an independent COSCOM, the MCC is responsible for providing the total movements management for the theater. In this capacity, it performs those total functions performed by the MCC’s of the TASCOM, FASCOM, and support brigades in the
field army/COMMZ organization. Normally, in this situation only a single movements program is prepared for the entire COSCOM. The program covers all personnel and materiel shipments in the theater and includes the Army-allocated portions of intratheater airlift and sealift provided by other U.S. forces or by host or allied nations. The MCC is also responsible for operating the theater CONEX and trailer control activities, for coordinating with CONUS base on programs for theater support, and for assuring a smooth interface of intertheater and intratheater movements procedures.

4-4. Relationships

a. Separate COSCOM. When operating in a separate COSCOM, the relationships of the MCC and TMO's are essentially the same as those described for an MCC and TMO's in the FASCOM MCC (paras 3-12 to 3-17). However, a variation exists in the relationships with petroleum suppliers, as in COSCOM the distribution of bulk POL by highway is a transport responsibility of the transportation brigade and a movements responsibility of the MCC. The relationship is therefore as outlined in paragraph 2-12d between the TASCOM MCC and petroleum suppliers.

b. Independent COSCOM. When operating in an independent COSCOM, the relationships between the MCC and the users of the transportation service and external relationships are as outlined in paragraphs 2-10 and 2-12 for the TASCOM MCC. However, as the MCC is an element of the staff of the ACoS, movements, and the terminal and transport operations in COSCOM are carried out by the transportation brigade, a subordinate command of COSCOM, the relationships with the staff and with the mode and terminal operators are as outlined in paragraphs 3-12 and 3-16 for the FASCOM MCC.

4-5. Highway Regulation

Highway regulation in COSCOM is essentially as described in paragraph 3-20 for FASCOM highway traffic headquarters. However, COSCOM highway traffic headquarters is involved to a greater degree in tactical unit movements than is FASCOM and is responsible for regulation in those areas which in the field army organization are responsibilities of both FASCOM and the support brigade for highway regulation. Therefore, it is possible that highway regulating point teams may be attached to the traffic headquarters to provide the personnel required for prompt responsive action on a round-the-clock basis.
CHAPTER 5

MOVEMENTS PLANNING AND PROCEDURES
(STANAG's 2156, 2164, 3093; SEASTAG 3093; SOLOG's 31, 50)

Section I. BACKGROUND

5-1. Army Logistics System

The Army logistics system, to efficiently accomplish its mission of placing men and materiel where and when needed, must be planned and coordinated from origin in the continental United States (CONUS) to final destination in the theater. Replacements must be assembled into planeload lots for a single destination wherever possible. Cargo must be palletized or unitized to facilitate handling and must be packaged into lots suitable for delivery in the theater to direct support units. On arrival in the theater, the theater army support command (TASCOM) mission commands are responsible for continuing the uninterrupted movement of replacements and materiel forward to their respective destinations.

5-2. Theater Flow of Supplies

a. In routine day-to-day operations, rear area depots and terminals ship materiel on a scheduled and throughput basis directly to the combat zone. Such shipments are made up from operating stocks arriving in the theater or stored in rear area depots. To the extent that theater input exceeds theater demands for combat-essential items, reserve stocks are first accumulated in the rear area where they can be shipped in any direction demanded by the tactical situation. As the buildup of stocks progresses, the materiel management center (MMC) directs shipments of selected combat-essential items forward for storage in field or ammunition depots adjacent to the army rear. These supplies are earmarked as reserve stocks to be issued in emergencies.

b. The movements management system in the theater is designed to facilitate scheduled and throughput supply distribution.

(1) Scheduled supply is a system enabling suppliers to calculate quantities of essential items for using organizations and to ship these supplies periodically without requisition.

(2) To achieve throughput goals, a high degree of interface is required among the supply, personnel, and transportation systems. The supply and personnel systems selected, prepare for shipment, and clearly identify the ultimate destination of shipments before they enter the transportation system. The movements management system provides the mechanism for coordinating the activities of the supply, personnel, and transportation systems to assure the most effective use of available transportation resources.

5-3. Use of Automatic Data Processing Equipment

a. The movement planning and monitoring functions and procedures described in this chapter can be adapted to the use of automatic data processing (ADP) and are designed to operate under varying conditions of conflict in any theater. However, if the size of the theater does not warrant an automated movements management system or if the automated system is disrupted, the procedures described in this chapter, with the exception of maintaining in-transit inventory of shipments, can be applied to a manual movements management system. (See chap 8.)

b. The basic computer program is prepared in CONUS well in advance of the desired date of use. It contains a sequence of steps which the computer must take to get the desired results.

c. After the program is placed in the computer, the computer acts on data fed to it for resolution. These input data will include transport capability of the mode operators, installation loading and unloading capabilities, and movement requirements. However, as it is impossible to foresee precisely what transportation will be available where
and when and what supplies or personnel will have to be moved, the responsible movements personnel must make judgments in these matters when they are beyond the machine capabilities, using both intuition and scientific weighing of alternatives as the situation requires and permits. Their judgments must be based not only on professional knowledge of the numerous aspects of the transportation system but also on an understanding of the interplay of closely related military considerations, such as strategic and tactical situations, movement characteristics, and current intelligence information.

(d) Based on the programs fed into the computer and on input data received by it for resolution, the ADP system may perform, among other tasks, the following:

1. Preparation of cargo disposition instructions for inbound vessels.
2. Preparation of port clearance programs.
3. Preparation of movements programs.
5. Provision of a current inventory on status and locations of controlled vehicles or containers.

(e) The application of ADP to movements management does not remove the requirement for local transportation movements offices. They are still responsible for local coordination among shippers, receivers, and mode operators; for handling movements not included in the capabilities of the computer program; for supplying input data to the computer; and for relaying information for highway regulation activities.

Section II. MOVEMENTS PLANNING

5–4. Movements Planning Process

(a) The movements planning process, which results in the movements program, is the method by which the commander's requirements for moving personnel and materiel are met. The three basic steps in the process are—

1. Developing the distribution pattern.
2. Developing and preparing the supply and personnel movements forecast.
3. Preparing, publishing, and distributing the movements program. (The movements program need not be issued as an entity but may be issued in extract form as outlined in para 5–7.)

(b) The movements program includes both forecasts of shipping requirements and forecasts of transport capability that will be available to the command. The movements program, before authentication, is distributed for coordination. (It is during this phase that the field army support command (FASCOM) movement control center (MCC) assures that the field army commander's priorities (para 3–13a) are considered.) When so distributed to interested agencies, the movements program is used for guidance and information only and in no way authorizes shipments to take place. It is designed solely to keep the movements organization, mode operators, supply managers, and other interested agencies abreast of the evolving pattern of projected logistical activity. The basic steps in developing the movements program are—

1. Determining requirements.
2. Analyzing capabilities.
3. Selecting and allocating modes.
4. Coordinating and resolving priority conflicts.

5–5. Developing the Distribution Pattern

(a) The distribution pattern for the theater army support command (TASCOM) is developed jointly by the MCC (for the transportation command) and the material management center (MMC) (for the supply and maintenance command). The development of the pattern begins when the TASCOM commander furnishes the general scheme for maneuver, the number and locations of troops to be supported, and, if appropriate, the phasing-in periods for these troops.

(b) The TASCOM staff uses the mission commands and their automatic data processing (ADP) facilities to develop the number of troops and the supplies required for the theater.

(c) Intelligence data on transportation matters are carefully studied to obtain knowledge of the area in which operations will take place and to determine the characteristics and potential capabilities of available lines of communications. Concurrently with this study, the mode operators of the transportation command determine the feasibility of moving supplies and personnel over various transportation nets. They also determine the amount and type of equipment required to make these moves. They recommend the locations for establishment of transportation facilities and estimate troop requirements for operating and maintaining the respective modes of transportation.
...procedure, a new planning cycle is initiated every equipment failures, operating conditions, and the AGO 20025A prospective geographical locations, and their loca- shipment from an activity of the command. The bulk are the fixed modes (rail and inland water- portation system as the carriers of the greatest these moves may be required only when it is antic- ported, establishes supply and maintenance activ- are primarily involved in the use of transporta- requirements and disposition of forces to be sup- tation command and on knowledge of supply re- based on requirements rather than estimates. The movements program period varies with the cies to make the system work.

5-7. Impact of Automatic Data Processing on the Movements Planning Process

a. In a fully automated system, movement re- \[\text{requirements are originated by the MMC and the personnel administration center and given di-}

c. The military police and civil affairs activities are primarily involved in the use of transportation for personnel moving rearward. Forecasts of these moves may be required only when it is antici- that the moves will exceed the normal return capability of the modes.

5-6. Time Period for Movements Program

The movements program period varies with the stability of the situation and the ability of supply and personnel managers to forecast requirements with a reasonable degree of accuracy. The forecasts must be submitted sufficiently far in advance that the transportation system and the supply system can adjust their respective resources to carry out the program.

a. A desirable cycle for manual processing is a 14-day planning period for which there is a firm forecast of requirements for the initial 7-day period and a tentative forecast for the succeeding 7-day period. This method minimizes adjustments during the initial period and provides a more accurate overall basis for planning. Under this procedure, a new planning cycle is initiated every 7 days for the following 14-day period.

b. The availability of ADP systems makes fea- \[\text{sible the development of a movements program based on requirements rather than estimates.}

5-8. Channels for Movement Capabilities

Transport capabilities must be submitted by the operator to the MCC for planning purposes in ac- \[\text{cording with published schedules. The forecasts of movement capability normally will be sub-}

In a fully automated system, movement re- \[\text{requirements are originated by the MMC and the personnel administration center and given di-}

Under the automated system, the MMC advises the MCC as soon as a supply action is taken which involves a supply shipment from an activity of the command. The MCC determines the mode of transport and the capabilities of shipper and receiver to handle the shipment; allocates transport capability for the movement; and advises affected shippers, TMO's, and mode operators. In this case, no formal movements program is published and these extracts serve in its stead.

b. The success of the system outlined above de- \[\text{pends upon the ability of the MMC to take essen-}

a. In a fully automated system, movement re- \[\text{requirements are originated by the MMC and the personnel administration center and given di-}

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loaded and unloaded all affect the availability of equipment and capability. The variables involved in such changes can be estimated but cannot be programed into the computer except as they occur.

5–9. Movement Requirement Information

a. Movement requirement information will be specified by the command upon recommendation of the MCC.

(1) Where necessary, a standard format is devised and used. Information contained in the format should include—

(a) Materiel being shipped. This normally is expressed in terms of the class of supply and the estimated short tons (STON’s) and measurement tons (MTON’s) of the shipment. The movements programers normally are not concerned with an inventory of specific items within a class of supply; however, items requiring special handling must be specified so that their characteristics can be readily identified. For example, heavy lifts should be expressed in units, dimensions, and short tons of each lift. Items requiring controlled temperatures or environment must also be identified.

(b) Personnel being transported. Personnel normally are listed as troops, patients, civilians, prisoners of war, and such other categories as will assist the movements control office in selecting the mode of transportation.

(c) Origin and destination. This information should include both the specific shipping and receiving agency designation and location by name and map coordinates. Unit designator codes will be used. For example, a proper designation would be “AK4GA4 C&D Point Mannheim Kaeffertal, Germany MU 605827.”

(2) Units requiring additional surface transport support to carry out a unit movement submit requests for movement in accordance with STANAG 2156, Transport Request and Reply to Transport Request (app K).

(3) Units in the NATO command which require air transport support to carry out a unit movement submit requests in accordance with STANAG 3093, NATO Air Transport Request and Answer to Air Transport Request (NARAT and TRANSAR) (app O).

(4) Within the Southeast Asia Treaty Organization, requests and replies to requests for air transport of the movement of troops or cargo or for aeromedical evacuation will be made in accordance with SEASTAG 3093, Request Form for Air Transport (app R).

b. Submission of properly authenticated movement requirements to the MCC or TMO is sufficient evidence that the requirements are authorized. Transportation movements personnel will not question the validity of the requirement. However, they will question obvious errors in the requirement and will bring them to the attention of the proper authority. They will also question any requirements which will lead to a violation of the maximum-use principle of movements; for example, if one shipment calls for the forward movement of 100 tons of concertina wire while at the same time a retrograde requirements exists to move 110 tons of the same item.

5–10. Schematics

A schematic is a tool for more effective movements planning and management. It can be of use to personnel programing a computer and to those who are programing shipments manually. Its purpose is to portray total shipping requirements and available transport capabilities as they relate to the actual distribution system. One schematic is prepared for requirements, and a separate transport schematic is prepared for each available mode. Examples of these are shown in figures 5–1 and 5–2. The basic steps in developing schematics are described in a through e below.

a. The first step is to prepare a supply distribution net diagram depicting the relative position (not necessarily to scale) of all origin and destination areas (circles on fig. 5–1) obtained from movement requirement forecasts. Then a listing of daily shipping requirements for each origin/destination area combination is prepared showing class of supply, tonnage, and the movements program line number. If forecasts are expressed as total program period tonnages, daily average requirements are obtained by dividing the total tonnage by the number of days in the program period. The list for each origin/destination combination is posted in an appropriate position between the indicated origin and destination.

b. The second step is to prepare a transportation net diagram for each available mode: rail, motor, pipeline, inland waterway, and air. This diagram includes those origins and destinations (circles on fig. 5–2) served by the mode for which it is prepared and appropriate mode capability information. Mode capability data are expressed in several forms: for rail and air, as total daily tonnage capacity between major terminals; for motor transport, as the daily ton-kilometer capability in a particular area or by segments of a line.
haul in relay type operations; and for pipelines, as the number of gallons throughput daily.

c. Using the requirements schematic, the final step is to select and allocate a mode for each shipping requirement (line item). First consideration should be given to allocating capability for the largest requirements moving the longest distances and evaluating movement priorities and shipment characteristics; primary emphasis is placed on using the full capability of each mode in relative order of economy. As each movement requirement is assigned to a mode, that requirement is added to the applicable origin/destination combination list on the mode schematic; at the same time, an appropriate deduction is made from that mode's capability. When all movement requirements have been assigned, the mode allocation information is transferred to the movements program. The schematic should be retained during the applicable program period and posted in a conspicuous place, as it provides a readily available means for recording changes and for illustrating the effect of such changes on the transportation system as a whole.

5–11. Mode Selection Guide

The movements manager uses the following basic guidelines in allocating the mode of transport:

a. Provide service according to need. It must be emphasized, however, that need is determined by established priorities and the nature of the shipment. In connection with the latter, an evaluation is made of the effect of shipment characteristics and other factors, such as security requirements and political considerations, on the provision of transportation service.

b. Use the most economical mode for the complete movement. Otherwise, use that mode's available capability as far forward as possible. The modes of transportation, their characteristics, and their most effective use are outlined in table 5–1.

<table>
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<th>Table 5–1. Mode Selection Guide</th>
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<td>Order of economy</td>
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<tr>
<td>Pack animals and human bearers.</td>
</tr>
<tr>
<td>Pipeline.</td>
</tr>
<tr>
<td>Water.</td>
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<tr>
<td>Rail.</td>
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<tr>
<td>Motor transport.</td>
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</tbody>
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Table 5-1—Continued

<table>
<thead>
<tr>
<th>Order of economy</th>
<th>Most effectively used as</th>
<th>Capabilities</th>
<th>Limitations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>operations by the trailer relay system. Primary mode for distribution operations and for logistical support operations in the combat zone.</td>
<td>variety of specialized equipment for both on- and off-road movement.</td>
<td>Cal in terms of ton-mile output versus expenditure of manpower and equipment.</td>
</tr>
<tr>
<td>Air.</td>
<td>Complementary mode for providing expedited movement of mission-essential traffic. Primary or major supplementary mode when terrain reduces effectiveness of surface modes. Scheduled operation is the most economical method of employment and produces greatest sustained ton-mile capability.</td>
<td>Greatest potential speed of delivery and most flexible with respect to terrain obstacles. When these factors are combined with substantial lift capability, air transport over long distances becomes more economically favorable.</td>
<td>Operational capabilities and effectiveness limited by climatological factors and trafficability of takeoff and landing areas. Relatively high ton-mile operating costs.</td>
</tr>
</tbody>
</table>

- c. Whenever practicable, minimize or eliminate rehandling of cargo during transportation and avoid crosshauls and backhauls. When available, mode combination services, such as trailer-on-flatcar, afford an effective means of accomplishing this objective.

- d. Allocate all available transport equipment necessary to fulfill known requirements. No transport equipment is reserved in anticipation of unforeseen requirements. Such requirements are met as they occur by allocating transportation in accordance with the commander’s priorities.

- e. Promote conservation of transport by planning for—
  1. Immediate redeployment of excess transport equipment.
  2. Use of returning vehicles.

5–12. Movement Priorities
Movement priorities are established in accordance with the desires of the commander. Their development is a staff responsibility of the command assistant chief of staff, movements. Movement priorities combine supply and transportation priorities to provide a basis for allocating transport capability and furnishing transportation service when requirements exceed capabilities. A movement priority may also define the type of transportation service (for example, the most expeditious mode that can accommodate the cargo regardless of economy factors).

- a. Implementation of movement priorities is a responsibility of the command MCC.

- b. Users and transportation agencies are responsible for—
  1. Implementing priorities applicable to their respective activities; that is, materiel issue, personnel replacement, or transportation.
  2. Adhering to time allowance for appropriate segment(s) of the order and shipping cycle.

5–13. Variations from the Movements Program
The movements planning process offers the commander a means whereby he can obtain maximum use of the movement capability. Although the program is based on estimates of requirements and capabilities, a high degree of accuracy is required for each period of the program. If it is found that the required degree of accuracy is not being obtained, a check should be made to determine if the time span of the planning period should be shortened or if command action should be taken against those activities who flagrantly disregard the need for accurate estimates.

- a. The commander issues guidelines on variations from the movements program. To illustrate the type of question covered by such guidelines, suppose that the movements program states that 100 tons of class I will move daily from point A to point B during a stated period:
  1. Do exactly 100 tons have to be shipped each day?
  2. Can 150 tons move one day and 50 tons the next?
  3. Can 50 tons of class I and 50 tons of class II move?
b. Movements personnel may not make a decision as to whether a variation should be allowed within the movements program except within the guidance furnished by the commander. Any variations allowed must be—

(1) Kept within the scope of the guidelines.

(2) In accordance with sound movements principles.

(3) Based on knowledge of the total situation (shipper, receiver, mode operator(s)) and the probable effect of any variation.

c. Because of their location and primary interest in the movements planning process, movements personnel are in a position to gather data to aid the commander in making a decision when a requested variation from the program is outside the guidelines within which the movements personnel must work.

5–14. Coordination of Movements Program

Installations in forward areas receive shipments by TASCOM interzonal transportation, FASCOM army-wide transportation, and corps support brigade transportation. It is therefore essential that all movements be closely coordinated and that movements information be promptly transmitted so that the capabilities of receiving installations to unload are not exceeded. In view of the volume of throughput distribution, it follows that the TASCOM movements program is the primary program and that the FASCOM planning is based largely on knowledge derived from the TASCOM program as to volume, commodities, and destinations in the field army area.

a. FASCOM supply resources are located in both the army rear area and the corps support brigade areas. Moving supplies from these resources is planned by FASCOM and, in the case of supplies from the corps support brigade areas, may require the use of corps support brigade motor transport to execute the movement.

b. Within the field army, the MCC has knowledge of supplies and materiel that are moving forward from TASCOM. If a transfer in carriers is necessary (for example, rail or trucks), the FASCOM MCC, in coordination with the TASCOM MCC, determines which cargo will be throughput on communications zone transportation and which will be transferred to field army (FASCOM) transportation. When the decision is made, the FASCOM MCC informs the appropriate modes, the transfer point activity, and the appropriate TMO’s of the requirements.

c. The corps support brigade program is a derivative of the FASCOM program. Transportation of the support brigades will be primarily concerned with transporting POL (petroleum, oil, and lubricants) and ammunition and with repair parts whose required delivery date precludes shipment from army rear or TASCOM depots.

5–15. Port Clearance Program

a. The port clearance program is a part of the TASCOM movements program but, for clarity in this manual, it is described separately. The preparation of a port clearance program follows essentially the same channels as does the rest of the movements program. Variations are chiefly in the sources of original information.

(1) The terminal commander is responsible for discharge of vessels in his terminals (port or beaches) and for clearance of cargo from his terminal area. He has a TMO located in his area to provide movements management functions.

(2) The TASCOM MCC and MMC receive manifest information from the continental United States or other ports of origin. The MMC reviews the manifests and, based on command policy or direction, provides the MCC with changes to destinations of the manifested cargo.

(3) The MCC recommends to the TASCOM ACoFS, movements, through the transportation command, the part(s) of discharge for the vessel(s). This recommendation is based on cargo destinations; projected port capacities, capabilities, and workloads; and capacities and projected workloads for the various segments of the transportation system. The ACoFS, movements, then convenes a ships destination meeting at which members of each service and of the Military Sea Transportation Service, the MCC, and terminal operators determine the appropriate port(s) of discharge for the vessel(s).

(4) The MCC determines the mode of transport for the cargo and provides the terminal operator with manifest information and cargo disposition instructions. The MCC also forwards any information pertaining to discharge priorities as provided by the transportation command staff.

(5) The terminal commander forwards his total requirements for transportation to the MCC to be used as transportation requirements in developing the port clearance segment of the intratheater movements program. When the port clear-
ance program is developed, the terminal commander provides the TMO located in his area with specific transport requirements for the cargo to be cleared from his terminal.

(6) The port clearance segment of the intratheater movements program is provided to the terminal operator, the TMO at the terminal and destination, the consignees, and appropriate transport mode operators.

b. Many factors affect the rate of discharge of cargo from vessels; for example, weather, gear failure, labor shortage, tidal conditions, enemy action, or hazardous shipments requiring special safety measures or processing. It is therefore imperative that the port clearance program be as flexible as possible.

c. Shipments enter the intratheater in-transit inventory as soon as they are turned over to the carrier; it is therefore essential that reports of shipment be transmitted at that time. The TMO verifies that reports of shipment are sent when shipments depart the port areas.

Section III. MOVEMENTS PROCEDURES

5–16. Maintaining In-Transit Inventory

a. The basis for the in-transit inventory is contained in the report of shipment (REPSHIP). The report of shipment normally will be made by transmitting MILSTAMP (Military Standard Transportation and Movement Procedures) information. However, when operations are being conducted in the NATO area, the report will take the form of an advice of movement (AMOVPER or AMOVMAT) as outlined in STANAG 2164 (app M). When operations are being conducted with British, Canadian, or Australian forces in other than NATO areas, the report will be a REPSHIP as outlined in SOLOG Agreement 50 (app F).

b. After the REPSHIP is prepared by the consignor, it is transmitted simultaneously to the consignee, the movements control center (MCC), and other interested activities.

c. Each REPSHIP is included in an in-transit file and a cross-reference file. The in-transit file will maintain a record of shipments indexed by vehicle identification number. The cross-reference file is indexed in shipment identification number sequence and is used to gain entrance to the in-transit file when shipment numbers are known.

d. As the transporting vehicle passes certain designated reporting points en route, status reports, in the format prescribed by the theater army support command (TASCOM) MCC, are transmitted electrically to the MCC. The status reports which will be required are as described below:

   (1) Passing reports contain the identification of a vehicle, the reporting point, and the date and time of the passing.

   (2) Hold reports will be submitted whenever vehicles are held without transfer of cargo.

Reasons for delays will be included, along with passing report information.

(3) Diversion reports will contain identification of vehicles, times, locations, and new destinations.

(4) Transfer reports will be submitted whenever cargo is transferred from or to a vehicle except at origin or destination.

e. Completion reports will be submitted to transportation movements offices (TMO's) serving consignees. TMO's will send these reports to the MCC for use in updating the theater in-transit cargo file.

f. Shipments in the in-transit file, when completed, are automatically transferred to the historical file of completed movements, and corresponding records are removed from the cross-reference file.

5–17. Passenger Movements

a. Procedures for passenger movements depend upon the circumstances under which the passengers are being moved. Individuals and small groups of travelers are furnished written authorization by the local transportation officer or TMO. This authorization is in a format provided by the command and is devised for accounting purposes, as well as for authority to travel. Unit moves and movements of 15 or more individuals normally require a transportation movements release (TMR). The primary reason for the release is to assure that suitable transport equipment is available for the move and that arrangements are made along the route to accommodate the passengers.

b. Requests for movement of personnel are submitted to the TMO in the same manner as for cargo movements and are programmed when the re-
requirements can be predicted in advance. If move-
ment capacity is available locally, the TMO issues
a release for the movement. If movement require-
ments exceed movement capability, priorities are
established by the commander and required trans-
port is requested through movements channels.
Normally, all modes of transport are used for pas-
senger movement. The mode selected for a specific
shipment will depend on the priority of the ship-
ment, the number and type of passengers to be
moved, the distance to be traveled, and the tactical
situation in the area into or from which the ship-
ment is being made.

c. SOLOG Agreement 50 (app F) prescribes the
format for a REPSHIP for personnel being moved.
SOLOG Agreement 31 (app E) describes the forms
and reports that are to be used by a troop train
commander and delineates his responsi-

5–18. Evacuation of Patients

a. Evacuating patients from forward units in
the field army to supporting hospitals or medical
installations in the field army rear or communica-
tions zone (COMMZ) is a responsibility of the
medical service. When long haul evacuation means
are required, as in the case of interzonal move-
ments, transportation assistance is requested
from commands possessing such capabilities. In-
terzonal movement will first be coordinated with
the aeromedical evacuation control center. Re-
quirements exceeding Air Force capabilities are
then placed on the MCC. Normally, evacuation
will be by air; however, ground means must be
available when air evacuation capabilities are ex-
ceeded. Care and treatment en route are ad-

b. Based on evacuation requirements submitted
by the FASCOM medical regulating officer (MRO)
or MRO's in the COMMZ, the TASCOM MRO
transmits an evacuation request to the TASCOM
MCC. The evacuation request includes information
on the point of origin and the destination of
patients to be evacuated. Though the movements
are not programed, this information is necessary
in order that movements personnel can arrange
rapid through transportation from the medical
facilities in forward areas to those in the field
army rear or the COMMZ.

c. Based on priorities, availability of the vari-
ous modes, and locations, the MCC prepares and
coordinates with the TASCOM MRO plans for the

5–19. Nonprogramed Movements

a. In the support brigade and the FASCOM
(and to a lesser extent in the TASCOM), there
will be a significant number of nonprogramed ac-
tions which the TMO's will be required to coordi-
nate. These result primarily from the fact that it
is not feasible to program all shipments from
direct support units.

(1) The support brigade normally will have a
portion of its motor transport capability allocated
to support of direct support personnel and supply
actions and to essential rewarehousing actions
within the support groups' storage facilities.

(2) The support brigades may be allocated a
portion of the FASCOM transportation brigade
air transport capability for making nonpro-
gramed movements from direct support activities
to supported units. When so allocated, the support
brigade MCC normally retains allotment au-
thority and places requirements with the aviation
battalion to which the operating aviation compa-
nies are assigned. On nonprogramed airlifts, oper-
ating coordination is conducted at local TMO-
aviation company level.

(3) The area support groups in TASCOM are
provided with motor transport units to accom-
plish direct support transportation missions but
not for rewarehousing operations within the
TASCOM depots. However, when such transpor-
tation is insufficient to meet the area support
groups' requirements or when another mode of
transport is required, the requirement is placed on
the local TMO as a nonprogramed action.

b. Requirements for inclusion in a movements
program are forecast well in advance of the actual
movement. During this period, shippers may have
requirements placed on them that must move
before the next program is compiled. If the re-
quirements are transmitted by the materiel man-
geement center (MMC) directly to the MCC, the
MCC will clear the requirements through the pro-
graming office in order that the requirements can
be placed in their relative position in the move-
ments program and thus maintain the benefits
accrued by movements planning. If the movement requirement is entered into the system by an activity other than the MMC, TMR procedures as outlined in paragraph 5-20 are followed.

5-20. Transportation Movements Release System

a. A TMR is the authority for movement. It authorizes dispatch of transport equipment, verifies receiving capability, and identifies the specific movement during transport. In contrast, the movements program line number identifies an authorized movement and is the authority for initiating a transportation request.

b. Authority to issue TMR's is decentralized to local TMO's on an exception basis. Under this procedure, TMR's are issued to the extent of locally allocated capability. If a TMR cannot be issued, owing either to a lack of transport or to inadequate receiving capability, a local adjustment is made, if possible. Otherwise, the request is referred in turn to the regional TMO (RTMO) and, if necessary, to the MCC for action. Shipments requiring specialized equipment or special service usually are referred directly by the originating TMO to the RTMO or the MCC as appropriate.

c. A standing TMR may be issued by authorized TMO's to cover normal repetitive movements of specific items between specific points, thus eliminating the requirement for repetitive issuances of TMR's. The standing TMR may be used when the commodities, origins, destinations, and modes of transport are sufficiently constant to warrant this type of control. They normally are issued for a specific period, after which they are reviewed by the issuing office to assure that the terms remain valid. When required by changed conditions, standing TMR's may be revoked before their normal expiration dates. A standing TMR should not be allowed to serve as a device for circumventing the movements program.

d. A TMR is issued for all release-unit-quantity transportation requests. Less-than-release-unit shipments may be handled by several methods:

(1) Consolidated by shipper and thus made eligible for a TMR.

(2) Forwarded by shipper to the nearest consolidation and distribution (C&D) point, if available, for consolidation.

(3) Held by shipper for pickup service provided in connection with a less-than-truckload scheduled express operation.

(4) Forwarded by shipper's organic transport.

e. Upon receipt of a transportation request, the origin TMO confirms transport capability and forwards the request to the destination TMO. In turn, the destination TMO confirms receiving capability, issues a TMR, and notifies the origin TMO. These actions must be taken expeditiously, and dependable rapid communication is essential. If a communication failure occurs or existing communication facilities are inadequate, the origin TMO issues the TMR based on his knowledge of receiving capabilities and advises the destination TMO as soon as possible. In those cases where a computer determines that the receiving agency has the capability to accept and unload the shipment, the origin TMO assigns the TMR number and advises the destination TMO.

f. To provide ready identification of the shipment during transportation, the TMR assigns a shipment identification number which usually contains the information contained in items 8 (mode) and 10 (transportation control number of the Transportation Control and Movement Document, DD Form 1384) for the shipment, plus such other identification as the theater commander may direct.

g. The procedures outlined in e and f above can be accomplished by automatic data processing facilities if the origin TMO has access to an input device capable of communicating the information to the central computer and receiving the results of computer action on the input information.

5-21. Movement Instructions

The movements program allocates movement requirements to available movement capabilities and reflects priorities established by the commander. The detailed information contained in a movements program is limited. For example, it may state that 100 tons of class II will move daily from point A to point B by rail during a specific time period. It does not state such specific details as type of rail cars required for the movement, opening and closing times of the activities at point A and point B, number of cars that should be spotted during daylight or during darkness, or other detailed information required to actually make the day-to-day movement at installation level. Therefore, on receipt of the movements program, the local TMO, in coordination with the shipper and mode operator, issues movement instructions to cover specific information not con-
tained in the movements program and to furnish details pertinent to the area or to the particular shipment. These instructions may be elaborate and in writing, or they may be oral and given over the telephone. A sample movement instruction follows: "Line item 128, movements program 15–21 September, TMR AK 6271R267, will be expedited. It will be covered with a tarp to prevent ready identification by casual observation. Loading will be done during daylight. Passing reports will be obtained from LeVas, Ogton, and Dennis. Upon arrival at LeSuyong, the 508th MP Company will provide a guard escort to accompany shipment through the Esplana province. Shipment will be delivered to consignee during daylight hours."

5–22. Export Shipments

a. Shipments from the theater through surface ports are made by a system similar to that required for CONUS-to-overseas moves. Planning for the movement of retrograde cargo will begin with the identification of retrograde items by the appropriate control center.

b. The TASCOM staff takes appropriate action to obtain an allocation of vessel space for movement of retrograde cargo. When the Military Sea Transportation Service has nominated vessels, the TASCOM staff informs the MCC of what vessels will carry which retrograde cargo from the theater. The MCC then prepares a plan for movement of the retrograde cargo to the ports which have been selected by TASCOM. Because of the small staff at TASCOM, they may delegate to the transportation command authority and responsibility for carrying out the above described staff actions.

c. The requirement for retrograde movement may necessitate that scrap and salvage brass and vehicles be moved from the field army area to salvage activities in the COMMZ as nonprogramed movements without waiting for the formal cargo booking and vessel nomination procedures to be done.

5–23. Consolidation and Distribution of Small-Lot Shipments

a. The handling of small-lot (less than release lot (para 1–4)) shipments in a theater of operations is a transportation problem of major proportions. As pointed out in paragraph 5–20d above, there are several methods by which small-lot shipments may be handled, among them movement through C&D points.

b. The operation of a C&D point is basically a matter of making management decisions on the method of shipment to be used to assure economical use of transport and to provide expeditious service to shippers. It brings together for movement in one vehicle or a series of vehicles movements en route to a common destination or a common terminal point along the route used by the transport service. By consolidating relatively small movements to form vehicle (air, highway, rail) loads, the movement of partially loaded vehicles is reduced to a minimum and maximum use is made of available movement capacity within certain limitations.

c. Within the theater, the freight C&D points are manned and operated by CD point detachments organized under TOE 55–560 and functioning under the supervision of an activity designated by the commander having control in the area where the C&D point is located.

d. Small lots of hazardous cargo (for example, explosives, gasoline, acids, or highly flammable or corrosive substances), items which might contaminate other cargo (for example, fertilizers), items which require protection from heat or cold (perishables), livestock, or classified or security cargo requiring continuous guarding will not be shipped through C&D points.

e. Shipping installations and agencies assure maximum consolidation of small-lot shipments by their shipping activity. They advise the C&D point serving their activity of small-lot shipments, giving the same information required for a TMR. They promptly load, document, and dispatch organic transportation to the C&D point when authorized by the C&D point.

f. C&D points promptly receipt for and unload air, rail, or highway equipment making deliveries to the point. They select modes and issue TMR's for consolidated vehicle load shipments. They load, document, and release consolidated vehicle loads. They furnish consignees with timely advice about the arrival and availability of shipments. They maintain records reflecting the receipt and distribution of shipments.

g. To the maximum possible extent, consignees pick up shipments from C&D points. C&D points will make this movement (from C&D point to consignee) only when it is impracticable for the consignee to make the movement. When it is considered impracticable for either the consignee or the C&D point to make the movement, the local TMO will be advised. Consignees furnish early notifica-
tion of expected arrival of high-priority or sensitive shipments.

h. When sufficient tonnage is not available to completely load a vehicle for an ultimate consignee or a single C&D point but the tonnage is of such proportion that backhaul to the consignee from a C&D point would be excessive, vehicles may be loaded for stopping transit for partial unloading by one consignee. Shipments intended for unloading at intermediate points will be placed in the vehicle so as to permit unloading without disturbing the storage of other shipments.

i. The C&D system will work closely with a theater less-than-carload operation if established. This system normally operates regularly scheduled hauls connecting all C&D point activities.

5–24. Trailer and CONEX Control Activity

a. The procedures for receipt, port clearance, and onward movement of CONEX (container express) containers or controlled vehicles used in intertheater transportation are the same as for general cargo except that the trailer/CONEX control activity in the TASCOM MCC is advised of the destination, consignee, and estimated time of arrival of the container at destination.

b. The control agency, in coordination with the freight movement division of the MCC, determines the following in order of priority:

1. If any suitable retrograde cargo for CONUS (continental United States), including mail, is available at the theater destination of the inbound container or trailer.

2. If a CONUS retrograde lift exists at another theater installation that does not involve an excessive lateral or forward empty movement in order to use empty trailer or container space.

(3) If a requirement exists for an intra-theater retrograde movement that would not unduly delay the return of the controlled equipment if it were used for the lift.

4. If the container or trailer should be returned empty to an appropriate terminal for loading with retrograde cargo for CONUS.

5. If the container or trailer should be returned empty to CONUS.

c. The determination as to further use of the controlled equipment is forwarded by the control agency to the—

1. Inbound destination TMO.

2. Inbound consignee.

3. Mode operator who will transport the container.

4. Consignor of retrograde cargo to be loaded.

5. TMO serving the consignor of retrograde cargo.

6. Outbound terminal.

7. TMO serving the outbound terminal.

d. Each terminal, consignor, and consignee is responsible for notifying the local TMO of each receipt and unloading and each loading and release (dispatch) of containers.

e. The TMO relays each transaction to the container or trailer control agency at group headquarters.

f. Each mode operator or designated reporting point will submit in-transit reports as outlined in paragraph 5–16 for the in-transit inventory system.

g. The theater control agency keeps the appropriate CONUS control agency advised of the status of controlled equipment in the theater.
CHAPTER 6
HIGHWAY REGULATION
(STANAG's 2041, 2151, 2154, 2159)

6-1. General

a. Highway regulation is the coordination of the actual use of a road net by vehicles, personnel, and animals to meet military operational requirements. The basic tool of the commander for accomplishing highway regulation is the highway traffic headquarters and its subordinate highway regulating point teams in the field. These units are described in preceding chapters. The extent of regulation exercised by a traffic headquarters depends on the amount of movement expected and the capacity of the road network. Types of movements normally scheduled by traffic headquarters include convoys, oversize or overweight vehicles, vehicles moving by infiltration, and troop movements on foot.

b. The automatic data processing capabilities of computers at the theater army support command (TASCOM) movement control center (MCC) and centralized computer centers at the field army support command (FASCOM) and the support brigades are employed in the following areas of highway regulation:

(1) Collation of general route information and traffic information.

(2) Operational planning information, including the preparation of march tables and critical point graphs.

(3) Provision of highway regulation situation data.

6-2. Terminology

The following terms are frequently used in highway regulation. Certain designated terms have been specifically defined in NATO standardization agreements (STANAG's) and in AR 320–5.

a. Control Point. A position along a route at which men are stationed to give and receive information and instruction for the regulation of traffic (AR 320–5).

b. Open Route. A route for the use of which no movement credit (g below) is required (STANAG 2151, app H).

c. Controlled Route. A route the use of which is subject to traffic or movement restrictions (STANAG 2151, app H).

(1) Supervised route. A roadway over which control is exercised by a traffic control authority by means of traffic control posts, traffic patrols, or both. A movement credit is required for its use by a column of 10 or more vehicles or by any vehicle of exceptional size or weight.

(2) Reserved route. A controlled route the use of which is —

(a) Allocated exclusively to a particular authority or formation, or

(b) Intended to meet a particular requirement; for example, a route reserved for evacuation.

(3) Dispatch route. A roadway over which full control, both as to priorities of use and regulation of movement of traffic in time and space, is exercised. A movement credit is required for its use by an independent vehicle or group of vehicles, regardless of number or type.

d. Critical Point. Any point along a route where interference with a movement may occur (AR 320–5).

e. Military Road Network. Includes all routes designated in peacetime by the host nations to meet anticipated military movements and transport movements, both allied and national (STANAG 2151, app H).

f. Military Road Maneuver Network. The road system required by a commander for conducting a specific operation and for the required logistical support of that operation (STANAG 2151, app H).

g. Movement Credit. The time allowed to one or more vehicles to move over a supervised, dispatch, or reserved route (STANAG 2154, app I).
h. Movement Number. A number which is allocated at the same time as the movement credit by the authority organizing the movement. This number will identify the column during the whole of the movement (STANAG 2154, app I).

i. Traffic Control. Direction of traffic to meet military requirements through on-the-spot guidance, analysis, information, investigation, studies, and enforcement.

6–3. Organization of Highway Traffic Headquarters

a. All matters pertaining to highway traffic regulation are centralized in the highway traffic headquarters, an element of the command’s movements control unit, under control of the assistant chief of staff, movements.

b. The traffic headquarters depends upon information, recommendations, and services from other agencies. The overall plan for highway regulation is formulated by the traffic headquarters and coordinated with other staff agencies as shown in figure 3–3.

6–4. Functions of Highway Traffic Headquarters

The functions required of a traffic headquarters may vary among commands. They generally include but are not limited to, the following:

a. Maintaining a situation map of the military maneuver road network (or military road network, as appropriate) showing current data on obstructions, detours, defiles, capacities, and surface conditions.

b. Implementing established priorities for highway movement in accordance with the commander’s instruction.

c. Receiving requests (proposed itineraries) for highway routing and for schedules of movements from units within its area of jurisdiction.

d. Consolidating itineraries and road movement tables (STANAG 2041, app G), scheduling highway movement, and issuing movement credits as necessary.

e. Establishing and issuing traffic circulation maps.

f. Making necessary changes in routings, schedules, and priorities as dictated by the situation and informing unit or convoy commanders of the action (through command channels when possible, otherwise through highway regulating points or traffic control posts).

g. Receiving, recording, and disseminating (as required) information from other traffic headquarters on highway movements into its area of jurisdiction.

h. Coordinating movements terminating outside its area of jurisdiction with other traffic headquarters.

i. In coordination with the engineer construction activity, developing long range and short range transportation planning information for repair priorities of the road network.

j. Establishing procedures for reporting road construction to the engineer construction activity.

6–5. Highway Regulation Planning

a. General.

(1) A highway regulation plan is a staff plan, which may be oral or written, concerning the capabilities of the existing road network to handle the traffic that must move thereon. Information derived from this plan is disseminated to the user by a traffic circulation plan or order and usually appears in the form of an overlay.

(2) The highway regulation plan is started well in advance of actual operations and is prepared to conform with the size of the command; the road network; the logistical situation; and the mission, composition, and disposition of tactical units. Planning must be fully coordinated with other staff agencies and among all echelons of commands concerned.

(3) A highway regulation plan must be adaptable to changes in the situation. If traffic is light, this may present little difficulty; however, when traffic is heavy and tightly scheduled, each adjustment may necessitate additional adjustments. If the plan is extensive, numerous calculations are involved and the plan tends to lose flexibility; if limited, the necessary control may be lacking. A balance must be found that provides the degree of control required by the commander, while permitting all possible flexibility and responsiveness to change.

b. Planning Information. The information required for highway regulation planning includes—

(1) Information on operational plans for the command (including civil officers’ plans); policies, priorities, and restrictions imposed by higher
headquarters; and plans for logistical support of the command.

(2) General route information—surface or pavement type, alignment, surface and width of shoulders, location and characteristics of bypasses or detours around limiting physical features and potential hazards, highway network distances, driving times, and highway capabilities. Alternate routes are considered, as well as critical points along all routes where ambush or other enemy action might be encountered.

(3) Traffic information—traffic density and anticipated volume by vehicle type; variations in the traffic flow over sections of routes during specific periods; the need for traffic patrols; and the location of sensitive areas such as potential bottle-necks, intersections requiring control, or railroad crossings requiring guards.

(4) Terminals and other facilities—location and characteristics of supply points, depots, service stations, tractor-trailer relay points, turn-arounds, off-road parking areas, bivouac areas, and evacuation or hospital facilities, considering access from major routes and capabilities for receiving, loading, unloading, and providing maintenance and service for motor transport.

(5) Availability of communications equipment.

c. Sources of Information. The information required for planning is generally derived from the following sources:

(1) The assigned mission, which may be a separate logistic mission or an extension of the tactical mission.

(2) Current estimates, the administrative order, and administrative plan(s).

(3) Reconnaissance as thorough as the situation and time permit. Preliminary information on the road network generally is obtained from maps, aerial photographs, local traffic authorities, intelligence reports, and transportation intelligence studies. This information is verified and supplemented by ground reconnaissance and, when practicable, by aerial reconnaissance. Ground reconnaissance parties may be composed of engineer and/or transportation personnel. The route reconnaissance overlay, furnished by the engineer officer, provides detailed information on the characteristics of the road net. (For an example of an overlay, see FM 5–36.)

d. Contents of the Traffic Circulation Plan. The traffic circulation plan (figs. 6–1 and 6–2) reflects the road net that is planned to be used and main-tained and shows how it is to be used. It may be as brief or as detailed as required. The following information normally is included:

(1) The most restrictive route features and route designations.

(2) Direction of movement.

(3) Location of boundaries, units, highway regulating points, traffic control points, and principal supply points and depots.

(4) Major geographic features and light line(s), if applicable.

e. Standing Operating Procedures (SOP). Detailed directives on procedures to be used in highway traffic regulation are contained in the command SOP and the highway traffic headquarters internal SOP.

6–6. Management of the Plan

a. Management includes all measures taken to assure effective implementation of the highway regulation plan. The transmission of clear, concise instructions to the commanders of all road movements and the distribution of pertinent information to all control personnel must be timely and thorough. The mechanics of this phase can be simplified by including highway traffic regulation procedures in the command SOP and developing an internal SOP for traffic headquarters.

b. The information included in SOP’s should be routine and not subject to frequent change. Concurrence of all interested staff agencies must be obtained before publication. Instructions and information on the following matters may be appropriate for publication in SOP’s:

(1) Rate of march and maximum permissible speed.

(2) Frequency and duration of halts.

(3) March discipline.

(4) Special rules of the road.

(5) Methods for handling stragglers and disabled vehicles.

(6) Procedures for obtaining road clearance or movement credits.

(7) Reports and reporting procedures.

(8) Gaps between vehicles and between serials.

(9) Controls required; for example, use of guides, flags, and markings.

(10) Identification of highway regulating and traffic control personnel by armbands or other means (STANAG 2159, app L).

6–7. Traffic Routing

a. Routing is the planning of highway move-
Annex A (Traffic Circulation and Control) to ADMNO 14.
Reference: Map, UNITED STATES, 1:100,000, UPTON Sheet

Figure 6-1. Sample traffic circulation plan, army area.
movement over designated routes. Three fundamentals governing planning of movements over designated routes are balance, separation, and distribution.

1. Balance is the matching of vehicle characteristics with characteristics and limitations of available routes; for example, routing heavy, cumbersome, or outsized equipment over a route with grades and curves within the capabilities of the equipment and with bridges of adequate capacity and width.

2. Separation is the allocation of nonconflicting routes to concurrent movements.

3. Distribution is the allocation of as many routes as possible for the movement of traffic to reduce traffic conflict, to prevent deterioration of road surfaces from the concentration of heavy traffic, to effect vehicle dispersion, and to decrease the time required to complete the movement.

b. The following principles should govern traffic routing:

1. Route traffic from its origin by way of predetermined intermediate locations to destination.

2. Assign highest priority traffic to routes that provide the minimum time distance.

3. Consider the capabilities of roads and bridges for sustained operations when assigning movements to routes.

4. Separate motor movements from foot and animal movements and slow motor movements from fast ones by assigning different times for each in accordance with their respective march capabilities. When necessary, arrange for assignment of civilian traffic to separate routes to assure freedom of movement for essential military traffic.

6–8. Traffic Scheduling

a. Traffic scheduling is the coordination of times for road movements along routes. Scheduling is necessary in order to—

1. Give priority to units in accordance with the commander's directives and, when scheduling the movement of several units, to units moving to more distant positions.

2. Minimize delays, conflicts, and congestion by assuring that traffic flow never exceeds the capacity of the most limiting feature (most severe bottleneck) of the route and by reducing peak traffic by spreading the flow.

3. Provide detailed regulation of special or high-priority individual movements.
(4) When air superiority is not established, promote security and passive defense by scheduling movements during hours of darkness.

(5) Restrict traffic to road capabilities to permit necessary highway maintenance.

(6) Maintain cognizance of all convoys so that at any time they can be rerouted, diverted, used to meet emergencies, or held to permit passage of priority movements.

b. In planning a large-scale road movement, many of the schedule computations become complicated and repetitious. These computations can be simplified by—

(1) Preparation and use of conversion tables for changing U.S. common to metric distances, number of vehicles to time length, and distance to time (table 6-1).

(2) Standardizing as many variables as possible. For example, if all wheeled vehicles not overweight or oversize can be diverted to use the same rate of march on a certain class of road, scheduling is simplified and the route is used efficiently.

Table 6-1. Metric Conversion Table

<table>
<thead>
<tr>
<th>Kilometers to miles (km x .621 = mi)</th>
<th>Miles to kilometers (mi x 1.609 = km)</th>
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</thead>
<tbody>
<tr>
<td>1 = .62</td>
<td>1 = 1.61</td>
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<tr>
<td>2 = 1.24</td>
<td>2 = 3.22</td>
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<td>3 = 1.86</td>
<td>3 = 4.83</td>
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<td>4 = 2.48</td>
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<td>5 = 3.10</td>
<td>5 = 8.04</td>
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<td>6 = 3.73</td>
<td>6 = 9.65</td>
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<td>7 = 4.35</td>
<td>7 = 11.26</td>
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<td>8 = 4.97</td>
<td>8 = 12.87</td>
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<td>9 = 5.59</td>
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<tr>
<td>100 = 62.10</td>
<td>100 = 160.90</td>
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</tbody>
</table>

c. Road movements may be scheduled by the methods discussed in (1) through (4) below.

(1) Infiltration schedule. An infiltration schedule is a vehicle dispatch rate assigned to a unit for a specified period. Vehicles or small groups of vehicles, after dispatch, proceed independently to their destinations over a prescribed route. By assigning appropriate rates of dispatch to different units using the same route, average traffic flow is held within desired limits. For example, two vehicles may be dispatched every 5 minutes the first hour and every 10 minutes the second hour.

(2) Location schedule.

(a) A location schedule minimizes congestion and prevents clogging of the traffic stream by assigning nonconflicting times for arrival and departure to different units at a particular location. The location may be a city boundary, detour, intersection, or other critical point. A location schedule may also be applied by assigning specific times for movement in one direction; for example, at a particular intersection, unit A may be scheduled to arrive at 1000 hours and to clear at 1015, unit B to arrive at 1020 and to clear at 1030, etc. Or northbound movements might be scheduled to proceed through a defile every even hour and southbound movements every odd hour. Location scheduling may be simplified and graphically portrayed by use of the critical time and point graph (fig. 6-3).

(b) The critical time and point graph offers the traffic headquarters a more flexible and comprehensive system for scheduling movements and checking requests for scheduling than does the march graph (para 6-10). It consists of a separate graphic chart for each selected critical point. These charts are divided into four sections representing a 24-hour period.

(c) To use the critical time and point graph, the period of occupation of each numbered critical point is determined from the schedules of units using the road net during the period shown. As this information is plotted, conflicts become apparent. Separate columns may be identified by symbols or colors instead of by shading as shown in the example. To obtain a complete graphic presentation of movements, the critical time and point graph should be used in conjunction with the traffic circulation plan.

(3) Column schedule. The column schedule indicates the arrival and clearance times for individual movements at specific points along a prescribed route of march. This schedule is used for the movement and is an aid to the unit commander in exercising unit control. Movement instructions often take the form of march graphs or road movement tables approved by the appropriate traffic headquarters.

(4) Route schedule. The route schedule is used to apportion time to individual movements proceeding along or intersecting given routes. Certain routes may be designated as controlled routes, and a march graph may be prepared for each. The routes selected may be main supply routes, routes that will carry the greatest volume...
of traffic as indicated by traffic analysis, or routes selected on the basis of need for coordination. For example, in planning for a special operation, the routes described in all proposed itineraries submitted for approval for movement on a given day may be plotted in a single overlay. The route(s) over which the greatest number of convoys move should then be selected as the dispatch route(s). This method graphically portrays the progress of each convoy (for example, a change in the rate of march is readily apparent). The route schedule is limited in scope as, by itself, it provides no control over movements to and from the dispatch route.

d. The following are axioms for guidance in scheduling highway movements:

(1) Intra-area movements are scheduled and a movement number is assigned to the unit by the traffic headquarters of the command having area jurisdiction.

(2) Inter-area movements are coordinated between areas concerned. The traffic headquarters in the area where the movement originates assigns the movement number. When inter-area movements conflict and cannot be resolved by the traffic headquarters concerned, the commander having overall jurisdiction is advised through the appropriate general staff section and is requested to determine the priority of movements.

(3) A round trip scheduled for completion within 24 hours is treated as a single movement. When more than 24 hours are required to complete a round trip, the return trip may be treated as a separate movement requiring a new movement number.

(4) A movement in one direction only, regardless of the number of days involved, is treated as a single movement and retains the same movement number to destination.

(5) March units within a column may be identified by adding a letter behind the movement number.

(6) Approved schedules and assigned movement numbers are furnished the provost marshal so that he may provide necessary traffic control within his capabilities.

6-9. Procedures

Whereas the foregoing paragraphs of this chapter are primarily concerned with the interior workings of the traffic headquarters, the following procedures pertain primarily to other agencies:

a. Request for Convoy Clearance.

(1) Before beginning a road movement over a route requiring a movement credit, the unit must submit a request for clearance through prescribed channels to the traffic headquarters within whose area the movement originates.

(2) DD Form 1265 (Request for Convoy Clearance) is a dual purpose document serving as either a request or an authorization for movement, or both. It is used by the requesting agency desiring to initiate a movement via highway and by the traffic headquarters to grant clearance and to issue instructions for the road movement. Information to complete this form is supplied by the unit requesting the movement. Depending on the urgency of the requirement, the information contained in the form may be transmitted orally, electrically, or in writing.

b. Granting the Movement Credit.

(1) After receiving the request, the traffic headquarters, if possible, schedules the movement at the time and over the route requested by the unit. When the move cannot be scheduled at the requested time or on the requested route, the requester is immediately notified and an alternate time and/or route(s) are arranged.

(2) After final coordination and approval, the traffic headquarters issues the necessary movement credit and movement number for the convoy plus any additional required information. This authorization is returned to the requesting agency through the same channels used in the request.

c. Issuing Priorities. Priorities are issued on the basis of urgency or critical need. Generally, when conflicts occur between movements having the same priority, forward-moving traffic has priority over traffic moving to the rear, forward-moving loaded vehicles have priority over empty vehicles moving in any direction. Priorities are established on the basis of the commander’s requirements to meet the military situation and can be expected to change from time to time.

d. Emergency Operations. Changes in the tactical situation, damage to roads, or trace congestion may require adjustments of traffic routing and scheduling.

(1) If a breakdown or serious interruption of the traffic plan can be anticipated, alternate plans should be prepared to meet the emergency. These
plans may involve rerouting, rescheduling, and re-
location of control and regulation personnel.

(2) Traffic emergencies that cannot be antici-
pated require prompt solution in the field. Mili-
tary police, in cooperation with highway regu-
lating personnel, assist column commanders in
taking immediate action. These field agencies
(highway regulating points, traffic control posts,
military police motor patrols, and highway regu-
lating point patrols) effect local emergency
routing, giving due consideration to established
highway routes and schedules. They report such
routing to the traffic headquarters and to highway
regulating points in the immediate area. Extensive
rerouting is done only on order of the traffic
headquarters.

(3) On receipt of advice from the field,
progressive adjustments of traffic plans can be
made by the traffic headquarters. Changes in the
plan are communicated to the field regulating and
control elements and to other affected agencies as
soon as possible so that the modified plan can be
implemented locally.

e. Control and Communications. The effective-
ness of highway regulation depends to a major
extent on the organization of staff and field per-
sonnel and the communications available for coor-
dination and for transmission of instructions,
orders, and reports.

(1) The organization of personnel for
highway regulation is based on 24-hour operation
of the highway regulating points and the military
police traffic control posts designated to perform
highway regulation functions. These points are lo-
cated at intervals along the route(s) so that pro-
gress of vehicles can be reported and followed and
movement schedules adjusted as required. Loca-
tions should be selected with care. Each highway
regulating point should be located where a definite
requirement for control can be anticipated. Truck
terminals, transfer points, crossroads, or key
routes to or from port or depot complexes may be
advantageous locations. It may be necessary at
certain selected points to provide off-round
parking for convoys in order to delay the onward
movement of low-priority convoys while those of
higher priority are allowed to pass. These off-road
parking areas should permit dispersion and pro-
vide concealment from aerial observation. The

teams to operate highway regulating points are
organized and equipped to—

(a) Report on convoys and other elements
arriving at and clearing the point so that progress
may be reported and their rates of advance ad-
justed as required.

(b) Receive, correlate, and disseminate
traffic and operational information and make re-
ports on current highway conditions and changes
as they occur.

(c) Transmit orders from higher head-
quar ters to passing units or organizations.

(d) Make diversions and effect changes in
priorities of traffic as directed.

(2) An adequate system of communications
must connect the traffic headquarters with
highway regulating points and traffic control
posts. To insure effective coordination of supervi-
sion and control, all control personnel, including
column commanders, must be kept abreast of
traffic conditions and changes affecting the opera-
tion. Organic communications equipment, the op-
erations communications net, the area communi-
cations system, and liaison are combined for effec-
tive communications under all conditions. Army
aircraft, when available, may be effectively used
for both communications and control.

6–10. Preparation of a March Graph

A march graph is issued to portray the movement
of a vehicle or column(s) over a controlled road or
road net to avoid conflicts in schedules and rout-
ings. An example of the procedures used to pre-
pare a march graph follows:

a. Scheduling the Head of the Column (fig.
6–4). The first movement to be plotted on this
graph is to start at Roland at 0400. It will proceed
to Dundalk at a rate of march of 20 miles (32 km)
in the hour. The distance to be traveled (100 miles
(160 km)) can be determined from the strip map
and the mileage scale at the left of the chart. The
time required to move from Roland to the destina-
tion (time distance) at the scheduled rate of
march is 5 hours. The point at which the lower
end of the diagonal line begins on the graph (0
miles, 0400 hours) indicates the start point and
the starting time of the convoy. The point at which
the upper end of the diagonal line ends on the
graph (100 miles, 0900 hours) indicates the desti-
nation and time of arrival of the head of the
column at that point. The diagonal line between
these two points represents the scheduled prog-
Example: Critical points 25, 26, and 27 are occupied at various times from 0001 to 0200 by miscellaneous small convoys. A large convoy traveling east will occupy critical point 25 from 0430 until 0530. It will arrive at critical point 26 at 0600 where it will turn north and occupy the intersection until 0700. Between 0745 and 0845 it will occupy critical point 27.

Figure 6-3. Critical time and point graph.

### Table: Critical Time and Point Graph

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### Progress of the Head of the Column

The progress of the head of the column as it travels along the route of march (indicated by the strip map paralleling the distance scale).

#### b. Scheduling the Tail of the Column (fig. 6-5)

Unless the march column or element is very short, both the head and tail of the column should be plotted on the graph. This is done by determining the time length of the column (the amount of time it takes the column to pass any given point on the route of march), computing the time the tail will depart from the start point and its time of arrival at destination. A diagonal line between these two points (parallel to the line representing the head of the column) is drawn on the graph. These two diagonal lines (representing head and tail) may then be joined at the origin and destination to form a block representing movement of that column over the road. In the example shown, the time length of the column is 1 hour. Thus, the tail will clear Roland at 0500 and will arrive at destination at Dundalk at 1000. Figure 6-5 also illustrates some of the planning and operational data available through analysis of the graph.

#### c. Scheduling Several Columns Over the Same
Figure 6-6. Plotting several columns over the same route.
Route. Road movement graphs provide the means for scheduling several columns or serials over the same route. A highway regulation officer, or the commander of an organization which is moving in several elements (serials, march units, etc.), can prepare a graph for a given period or a given group of movements. Then, through information received from highway regulation personnel, traffic control personnel, convoy commanders, and other control personnel on the ground, he can maintain an accurate record on the graph as the various elements proceed along the route. Pencil shadowing, colored pencils, crayons, ink, or tape may be used to designate various elements and to indicate schedules, priorities, actual progress, etc. Changes and adjustments in the operation may be made on the graph as the various columns progress along the route of march. Figure 6–6 shows a road movement graph prepared for a particular group of movements. If these movements were to proceed as scheduled, they would not interfere with each other and there would be no requirement for adjusting any schedules or for changing the graph. However, situations may arise at any time during an operation which might necessitate adjusting schedules and require reploting on the graph. Figure 6–7 shows the graph for the movements as it might have been completed after certain operational changes occurred. The assumed changes reflected in the graph in figure 6–7 are listed in (1) through (5) below.

1. Column A. Column A scheduled to move from Roland to Dundalk at a rate of march of 20 miles (32 km) in the hour completed its movement as scheduled.

2. Column B. Column B consisted of three serials. It was originally scheduled to move from Mt. Royal to Tavistock at a rate of march of 15 miles (24 km) in the hour. However, it received a change in orders directing that it continue without delay to Avery, the noon meal to be fed upon arrival at destination. The change was plotted on the graph, the column commander was informed, and the move completed according to its new orders.

3. Crossroad traffic. On the original road movement graph (fig 6–6) information was plotted on a laterally moving column which would cross the north-south route at a crossroad 5 miles (8 km) north of McClean and block it from 1330 to 1400 hours. This move was not identified as a serial but was shown on the graph as a line blocking the north-south route during the stated period. When column B was rescheduled to its new destination (fig. 6–7), it was determined that there would be a conflict between the third serial of column B and the lateral movement. Since it was not considered feasible to break up the formation of column B and a check of priorities showed that the lateral movement had the lower priority, the lateral movement was halted for one-half hour to allow the third serial of column B to clear the intersection. The lateral movement then arrived at the crossroad at 1400, approximately 15 minutes after the last vehicle of the third serial of column B cleared the intersection. The dotted line in figure 6–7 indicates the originally scheduled crossing of this lateral movement; the solid line shows its rescheduled crossing time.

4. Column C. Column C was scheduled to move from Roland to Dundalk at a rate of march of 10 miles (16 km) in the hour and to make a 1-hour noon halt along the road (after passing Stevens). At about 1045, traffic conditions deteriorated rapidly owing to the retrograde movement of engineer heavy equipment coming onto the route at Jackson and leaving it at Stevens. To alleviate this condition, it was decided to halt column C at 1130 at the intersection in Stevens and to have the convoy move off the road into a parking area adjacent to the highway regulating point at that location. Then after the noon meal and after passage of the engineer convoy, column C would proceed to destination. This required minimum schedule adjustment. (Note the method of plotting an off-the-road halt (fig. 6–7) as compared to a halt on the road (fig. 6–6.)

5. Column D. Column D, consisting of four serials, scheduled to move from Stevens to Avery at a rate of march of 20 miles (32 km) in the hour, completed its march as scheduled.
CHAPTER 7
TRANSPORTATION MOVEMENTS OFFICES PROCEDURES AND DUTIES
(STANAG's 2156, 2166, 3344; SOLOG 31)

7-1. General

a. The duties to be performed by each transportation movements office (TMO) will depend on the immediate situation. Some of the duties usually performed by the TMO at the various locations are contained in SOLOG Agreement 31 (app E), and additional duties are outlined in (1) through (20) below.

(1) Assists in preparing plans for expeditious handling and loading of freight movements.

(2) Advises the next higher movements office of the ability of shippers to originate and receive movements.

(3) Based on information from the daily installation situation and other reports, informs the next higher TMO or movement control center (MCC) of the progress of shipments.

(4) Acts to correct congestion or conditions which reduce the movement capacity of available facilities. When action requires more than the delegated local authority, recommendations are referred to the next higher TMO or headquarters.

(5) Assures that movements are made by the means and in the priority designated by movements programs or other directives.

(6) Receives requests from shippers for transport capacity to meet movement requirements.

(7) Allocates movement capability to shippers to fulfill movement requirements, including nonprogramed requirements for which local release is authorized by proper authority.

(8) Submits to the next higher TMO or MCC requests for transport capacity for movements not contained in movements programs or other directives and for which local release has not been authorized.

(9) Determines through movement channels the ability of consignees to accept shipments.

(10) Prepares and distributes movement instructions to shippers and transport services to assure that activities are coordinated in the accomplishment of movements.

(11) Coordinates the arrival and spotting of transport equipment for loading and unloading at the time and place mutual agreeable to the shipper and the transport service.

(12) Determines compliance with established packing, marking, and documentation procedures. (Special requirements for documentation for intratheater movements in NATO areas are contained in STANAG 2166 (app N).)

(13) Provides such advice and supervision as may be required for efficient and expeditious handling, loading, an unloading of transport equipment.

(14) Insures, as far as practicable, that transportation equipment or convoys of equipment are loaded for one destination with a single class of supply.

(15) Arranges for and coordinates escorts and communications for shipments of classified materials as required.

(16) Arranges for and coordinates en route bivouacs, rations, services, and resupply for movements, as required.

(17) Notifies the destination TMO of any information pertinent to the movement which may assist the consignee in receiving the movement.

(18) Enforces embargoes and priorities which have been established by proper authority.

(19) Advises installations of impending arrival of movements listed in movements programs or other directives.

(20) Regulates movements inbound to or outbound from the installation or area by granting or refusing clearances to local installations originating or receiving movements.

b. A local TMO may serve several shipping agencies, and each agency may make shipments
each day. The TMO's will work around the clock during hostilities but during peacetime may use only a skeleton staff during those periods when shipping activities are not working. The busiest times normally will be when the requests for transportation for the following day's shipments commence to arrive and are being processed. For instance, at 0800 hours daily, many requests for transportation are being received. The requests are numbered and logged, and the requirement for each mode is determined. The mode operators are then contacted. For example, rail is contacted and informed that shipping point A has a requirement for a certain number and type of cars to be moved to a specific destination, likewise, shipping point B, and so forth. Negotiation then takes place, such as, "We are short of boxcars, can some of this material be loaded on gondolas?" "The shipment moving to D cannot be carried today because the track is bombed out, it will be ready tomorrow." And so it continues until complete arrangements are made. Meantime, the same type of negotiation goes on for the other modes of transport. The information is assembled and passed on to respective shippers, informing them of the amount, the time, and the spotting position of equipment for the following day's work. In large areas it may be necessary to hold equipment meetings, with the TMO presiding and the mode operators and the shippers presenting their operational situation and airing their troubles or problems.

c. Consideration should be given to the time reports of shipments (REPSHIP's) go forward. They alert the consignee and must arrive in sufficient time for him to take the necessary preparatory action. For example, reports of air shipment, when the air move takes only 2 hours, should be simultaneous with the takeoff of the craft.

7-2. Movements Activities at Origin

a. General. The primary duty of a TMO located at a point where a movement originates is to coordinate, within the framework of movements directives, with the users of transportation, the transport operator, and the MCC staff responsible for the allocation and management of movement capacity. These TMO's assure that the relationship between users of transportation and transport operators is coordinated so that the programs, directives, and policies of the commander are complied with and maximum use of movement capability is obtained. To insure the successful performance of the transportation mission, shippers must request transportation through the appropriate TMO. Transport services must provide movement capacity only when authorized to do so by the appropriate TMO.

b. Requests for transportation.

(1) Requests for transportation should be submitted as far in advance of the desired shipping time as possible. Cut off times for requests may be established by the responsible commander, after which no requests will be accepted for routine movement on the following day. Within the specified period, normally 0800 hours for rail and 1500 hours for highway, the shipper submits his requests for transportation to the designated TMO. The format for the request will be specified by the MCC and, in accordance with STANAG 2156 (app K), the request must contain all the information necessary to allow the TMO to—

(a) Determine the most suitable means of transport in relation to the requirements and the actual transport available (if the means (mode) is not specified in a movements program).

(b) Decide what action is necessary to implement the movement.

(2) The TMO will verify the request for accuracy, check it against the movements program, and forward necessary information to the selected mode operator serving the area.

(3) The carrier will designate a specific unit of transport to make the move and will notify the MO of the day, the hour, and the number of units that will be spotted. The TMO will then furnish a reply to the requestor, using the format prescribed by the MCC. The prescribed format must contain, as a minimum, that information specified in paragraph 8 of STANAG 2156 (app K).

(4) When the transport has been loaded, the shipper will notify the TMO and release the transport for movement in accordance with movements procedures for the area.

(5) The carrier will notify the TMO of the actual time the shipment departed the terminal.

c. Report of Shipment for Freight. Immediately after a shipment starts to move from its point of origin, a REPSHIP is prepared by the consignor and dispatched to the consignee. Information copies of the REPSHIP are forwarded to the MCC, the TMO at origin and destination, and other interested agencies. The REPSHIP is prepared as outlined in paragraph 5-16.

7-2
7–3. Movements Activities En Route

a. General.

(1) Once a shipment begins to move, one or more of the following actions may take place. The shipment may be—

(a) Consolidated.
(b) Stopped in transit.
(c) Held in transit.
(d) Diverted.
(e) Reconsigned.
(f) Transferred.
(g) Traced.
(h) Expedited.

(2) Movement control personnel are not operators in the sense of physically diverting a shipment. They are the monitors of the traffic moving over a system. They request the transport services to divert shipments, and the diversion and necessary redocumentation are done by the transport service.

(3) Transit servicing, such as stopping in transit, holding, diverting, and reconsigning, by agencies unfamiliar with the transportation situation can create congestion, confusion, and waste of movement capability. All requests for such action must be made through TMO’s which in turn notify the MCC, either via the computer system or by conventional communications. The MCC, with its access to the computer and by properly coordinating activities with all concerned, can assure free flow of movements to destination.

b. Transferring.

(1) The operation of a transfer point is a responsibility of the commander operating the transportation system being used. As an example, terminal transfer units of the theater army support command (TASCOM) transportation command may be employed in the field army area to transfer cargo from rail to TASCOM trucks in connection with TASCOM’s responsibility to deliver cargo to the direct support units in the corps support brigades and to division support commands. The principal reasons for establishing a transfer point are—

(a) Termination of the line of communication provided by one mode of transport, making transfer to another mode necessary to continue the movement.

(b) Interruption or absence of a through route because of—

1. Varying gages of railroads.
2. Damage to route or facilities along the route such as rails, bridges, canal locks, or airfield traffic control facilities.
3. Limitation of weight or size (vertical or horizontal) on roads, railroads, and bridges.
4. Temporary disruption of service by enemy action.
5. Inclement weather resulting in blocking or rendering the use of the original mode too hazardous.

(c) Further forward movement by original mode considered inadvisable due to proximity of enemy forces.

(d) Reduction of capacity at a point along a line of communication, making it necessary to transfer the excess load to another mode of transport.

(2) Once a shipment has started to move, transferring permits it to flow from origin to destination without additional action on the part of the consignor. Strategically located transfer points increase the overall movement capability of the transportation system and provide locations where transit services such as holding in transit or diversion may be easily accomplished.

(3) Movement control personnel do not operate transfer points, but they normally will be located at intermediate points in the theater of operations where diversion or change in movement priority will be made or where close supervision is required to prevent congestion. They will be available to coordinate the movements aspects of the operation.

(4) A transfer point is a modified shipping and receiving agency from the following viewpoints:

(a) When the consignor ships through a transfer point, the movements program will have designated the transfer point. When the shipment has departed the consignor, a report of shipment is forwarded to both the consignee and the transfer point. The estimated time of arrival to the consignee is based on the time taken to move through the transfer point and on to ultimate destination.

(b) Upon receipt of the REPSHIP, the transfer point prepares for receiving and outshipping. As did the original consignor, the personnel at the transfer point submit a request for transportation. This request may be a consolidated request for the day’s anticipated activity. The transfer point forwards a REPSHIP to the consignee upon departure of the shipment from the transfer point.
c. Tracing.

(1) Tracing is the procedure for locating a shipment en route or for confirming the forwarding or delivery of cargo. Except for baggage, tracing actions are initiated in accordance with the provisions of Part IV, SOLOG Agreement 31 (Revised) (app E). Tracing accompanied baggage transported by air will be done as outlined in STANAG 3344 (app P).

(2) In an automated system, based on information contained in the movement check/standard tracer (SOLOG 31, app E), the TMO relays necessary information to the computer serving the MCC. The computer determines the approximate location of the shipment, based on the latest passing report or other source of information and relays such information to the mode operator. The computer may also be programmed to direct the mode operator to take transit action as per instruction in the movement check/standard tracer. In either an automated or a manual system, the mode operator determines the exact location of the shipment and either takes transit action and advises the TMO of action taken or advises the TMO of the next location where transit action can be taken and of the estimated time of arrival of the shipment at that location. If transit action has been taken, the TMO notifies the originator of the movement check/standard tracer. If action is still required, the TMO advise the next location where transit action can be taken and then notifies the initiator of the movement check/standard tracer.

d. Expediting.

(1) Expediting is of primary importance when a shipment is urgently needed at destination and when delay is apt to occur on the lines over which the shipment is to move. As each expedited shipment is a disruption of the normal movement of supplies, all requests for expediting shipments should be processed through MMC/MCC channels to eliminate abuse of this type of service.

(2) Expediting should begin before the shipment actually is moved so that it can be packed, marked, loaded, and routed to take advantage of the fastest transportation schedules. The movements planner can arrange for shipment by priority transportation, and carriers can monitor the shipment en route to make sure that it travels at maximum speed. Movements personnel should place on the REPSHIP sufficient identification so that each TMO along the line can assure that the shipment is not unnecessarily delayed. Expedite shipments should be clearly marked so that transport services personnel will easily recognize them.

7-4. Movements Activities at Destination

a. Receiving, Unloading, and Releasing Transport. Activities at destination of a shipment consist of receiving, unloading, and releasing the transportation equipment. The TMO coordinates the activities with the consignee and issues instructions to the consignee on the disposition of the equipment. The unloaded transport equipment may be used for retrograde shipments or released to the transport service, or, if it is controlled equipment, disposition is made in accordance with instructions received from the MCC.

b. Assistance to Consignee. The effectiveness of the transportation service is reduced when receiving installations become congested and are unable to unload arriving shipments promptly. The transportation movements officer assures that movements are not forwarded to an installation in excess of capability of the installation to unload and clear from the loading area. This may include advising receiving personnel on ways to increase traffic handling at the site and on preparation of plans for unloading and clearing operations.

7-5. Duties of Air Traffic Coordinating Offices

a. General. Scheduled air line of communication operations require timing and precision in loading and unloading aircraft. Both the cargo and the aircraft are critical items. To assure timely movement of cargo and personnel and to facilitate efficient use of aircraft, airlift operations and related activities must be closely coordinated. Accomplishment of this objective is the primary task of transportation movements officers stationed at air facilities. These personnel are designated air traffic coordinating officers (ATCO’s).

b. Relationships. ATCO’s normally function under the operational control of the MCC. In this case, the ATCO’s are responsible for maintaining a continuous and orderly flow of traffic into and out of the airlift system. Their actions are governed by command movements management policies and procedures and by allocations contained in the command’s movements program. Close working relationships are essential among ATCO’s, TMO’s, other air terminal elements, and aircraft operating elements.

c. Functions. In carrying out their essential responsibilities of coordinating and expediting,
ATCO's provide a single point of contact for all matters relating to procurement and use of air transportation service. They perform the following major functions:

1. Control and coordinate the flow of traffic into the airlift system. Traffic flow is based on flight schedules and availability of opportune airlift. Control normally is exercised through an air movement release system based on policies, priorities, and allocations established by the responsible commander. Within prescribed limits, adjustments are made to meet local conditions. Significant variations from programmed or scheduled requirements are referred to the command MCC for resolution. Coordination may include any or all of the following actions:
   (a) Maintaining current information on flight schedules and other pertinent flight operations data.
   (b) Maintaining current knowledge of the status of terminal receiving, warehousing, and loading facilities.
   (c) Determining shippers' loading capabilities and shipping schedules.
   (d) Arranging for pickup of shipment if motor transport is available for that purpose, otherwise, informing shippers of desired delivery time. Also, arranging for on-site pickup by aircraft under appropriate conditions.
   (e) Assisting the terminal transfer element as required to facilitate expeditious loading and unloading of aircraft.

2. Arrange for diversion of traffic from air to surface to prevent or relieve air terminal congestion as required or as directed by competent authority.

7-6. Duties of Rail Transportation Officers

a. General. In large transportation terminals, in major cities, in areas where the density of U.S. forces does not warrant establishment of housekeeping type organizations, and at such other locations as the appropriate commander may specify, TMO's may be assigned responsibility for performing the duties of rail transportation officers (RTO's). The RTO's facilitate movement of passengers and freight through the area in which they are stationed by furnishing information and by coordinating with local carriers.

b. Relationships. RTO's normally function under the operational control of the MCC, but have close working relationships with other military facilities in the area and, when employed in a U.S. forces area, with the local area commander. They coordinate closely with local carriers and normally have office space in the passenger terminal area of the carrier.

c. Functions. In carrying out their essential responsibilities of coordinating and expediting, RTO's provide a point of contact with all carriers and travelers in their area. In addition to the normal TMO functions, they may perform any or all of the following:

1. Custody of, accounting for, and issuing transportation requests, warrants, or tickets for travel on commercial or military conveyances.

2. Furnishing travel information and obtaining passenger accommodations for persons traveling on official business in military or commercial carrier equipment.

3. Maintaining familiarity with schedules, services, facilities, rates, fares, and charges of commercial carriers and providing such information to U.S. sponsored travelers.

4. Operating a consolidation and distribution facility in conjunction with a less-than-carload service of the carriers in the area. When assigned this function, additional personnel and equipment from TOE 55-560 must be authorized.

5. Arranging for messing and billeting of in-transit personnel.

6. Obtaining schedules for special military trains.

7. Arranging for provisioning of military passenger trains originating in or transiting the area.

8. Preparing passenger manifests.


10. Assisting arriving personnel through customs and immigration at rail ports of entry or at commercial water ports of entry where no U.S. terminal unit is stationed.
CHAPTER 8
TRANSITION FROM MANUAL TO AUTOMATED PROCEDURES

Section I. GENERAL

8–1. Purpose
The use of automatic data processing equipment (ADPT) in connection with movements control and highway regulation will be accomplished by a gradual transition from manual to computer operations, taking place over a period of several years. The purpose of this chapter is to describe interim procedures that may be used until sufficient ADPE and associated communications become available to incorporate movements management and highway regulation in the combat service support system (CS), of the automatic data systems for the army in the field (ADSAF) program.

8–2. Interim Capabilities

a. The organizations described in this manual are capable, when augmented by appropriate communications teams, of functioning under either a manual or an automated system. However, when operating under a manual system, responsiveness in two areas will be degraded.

(1) Responses to command queries on the status of movements (or such other reports or information as the commander may desire) will require a greater time to assemble and relay manually than if ADP facilities were used. Replies will therefore be slower and on an “as of” status rather than a current status. The additional time required to prepare the response will depend on the nature of the requested information.

(2) Response times to requests for in-transit services (diverting, tracing, expediting, or holding in transit) for shipments are largely dependent on whether an automated system, with the in-transit shipment inventory capability, is used or whether manual procedures must be followed. A more detailed discussion of response times and their effect on shipments is contained in section III.

b. It is estimated that at the theater army support command (TASCOM) an automated movements system will require the daily transmission of 2,096,000 characters and a 3,750,000-character memory storage. The cost of such a computer and communications system precludes their purchase and installation during the interim period described above. However, ADPE currently in theaters can and should be used during the interim period. Such use will facilitate movements control operations and provide a desirable (but less complete) indoctrination for Army personnel in data processing systems. A comparison of existing ADP systems and their potential application to movements management during the interim period is contained in section II.

8–3. Computer Information
In any discussion of computers, it must be remembered that a computer is not an electronic brain. It can add, divide, multiply, and subtract (by a system of addition), and it can tell whether one number is equal to, greater than, or less than another number and whether a number has a positive or negative value. However, to accomplish any particular function, the computer must be told what to do, step by step, instruction by instruction. These steps or instructions make up the computer program. The program must be fed into the computer in specific terms that the computer is capable of understanding. These terms constitute the “language” of the computer. As various nations of peoples speak different languages, so do various types of computers. In other words, all computers are not capable of “talking” to each other. This is the situation that exists today in various theaters and one which will be remedied when the computer system discussed in this manual is installed. By standardizing computers and languages, the movement control center (MCC) computer will be capable of “talking” to the computers of the materiel management center (MMC), the personnel administration center, and other MCC’s, and probably to all systems in the
theater and to primary computer systems in the continental United States.

8-4. Current Status

Oversea theaters now have punchcard machines and several types of computers (programed in different languages) performing portions of the movements functions. For example, in U.S. Army, Europe, computers are used for checking on past transportation performance, for determining requirements for passenger transportation, and for programing transportation service workloads. Punchcard machines are used for processing material release orders, preparing transportation control and movement documents and preparing vessel manifests and hatch lists.

8-5. Time Schedules

The schedule date for completion of a military ruggedized ADP system (programing, equipment procurement, systems installation, and "debugging") for movements control and highway regulation in theaters of operations is 1975. During the interim period, maximum use will be made of the capabilities of existing and planned ADP equipment and programs.

Section II. CURRENT AND INTERIM PROCEDURES

8-6. Port Clearance Planning


(1) Punchcard transportation control and movements documents (TCMD's) are forwarded by transceiver or airmail from the continental United States (CONUS) shipping activities to CONUS water terminals. These TCMD's identify the shipper, consignees, port of embarkation (POE), commodity, weight, and cube.

(2) At the POE, TCMD's are used to plan an onward movement of the shipments, to process shipments through the terminals, to prepare mechanized cargo manifests, and to satisfy date requirements for internal operation reports.

(3) Depending on automatic data processing equipment (ADPE) capabilities, cargo manifests or the punched cards used in preparation of the cargo manifest are transceived or airmailed to the port of discharge.

(4) Cargo manifests or cargo manifest cards are received at the oversea ports in advance of the materiel and are used for planning vessel discharge.

(5) Copies of the manifest are mechanically prepared for local distribution. Information contained in the manifest is used for preparing hatch lists, discharge papers, and TCMD's.

(6) When the vessel discharge plan (4) is prepared, the movement control center (MCC) is notified. The MCC then determines the mode of transport to be employed for each line item of the manifest and determines the capability of the consignee to accept the shipment by the mode and on the ETA (estimated time of arrival) date. The MCC then notifies the discharging port and the transportation movements office (TMO) serving the port of the mode to be employed.

(7) TCMD's are used as vehicle waybills or shipping documents for onward movement to the ultimate consignee.

b. Interim Procedures.

(1) Steps (1), (2), and (3) of current procedures (a above) remain unchanged.

(2) Cargo manifest cards are received by the MCC. The MCC obtains from the materiel management center (MMC) any changed destinations, determines the mode of transport for each shipment, and, through use of the MMC's ADPE, prepares the movements program, hatch lists, and advance TCMD's for consignees.

(3) Dependent on ADPE available, the MCC transceives or sends by courier the manifest information and hatch lists to the port and mails advance TCMD's to consignees.

(4) The POE uses the manifest information and hatch lists in planning vessel discharge and coordinates with the local TMO for placement of transport equipment used to move cargo through the port. The TCMD's are used for vehicle waybills or shipping documents for onward movement to the ultimate consignee.

8-7. Passenger Movements Planning


(1) Requirements for passenger movements are submitted from activities and major commands to the MCC. These requirements are in hard copy format and contain information such as organization, funds, rank, grade, dependents, date travel required, and other movement data. Requirements are submitted on a unit and an indi-
vidual basis. The number of hard copy formats received and the number of personnel requirements varies with the military situation. This volume of input also depends on the number, frequency, and type of requirements (unit or individual) submitted by the agencies and major commands.

(2) The MCC consolidates and tabulates total requirements by period and by category and applies requirements to movements programs. It makes allocations to airlift and sealift to meet commitments. All internal operations are manual.

(3) Reports in hard copy format containing information on movements program requirements are forwarded to the Military Airlift Command (MAC) and the Military Sea Transportation Service (MSTS). Agencies and commands are notified by hard copy as to the type of move scheduled. This information is used to prepare movement orders, to schedule airlift and sealift, and to plan long and short range program requirements.

b. Interim Procedures.

(1) Requirements for passenger movements are submitted on a monthly basis from activities and major commands to the MCC. These requirements are in punchcard format and contain information such as origin, destination, funds, sex, rank, grade, date travel required, and other movement information.

(2) The MCC, using MMC ADPE, tabulates the requirements by period and category and places the requirements in the movements program, including the mode of transportation to be used.

(3) Copies of the program are furnished MAC and MSTS for scheduling airlift and sealift and for planning their own short range programs.

(4) Updated punchards are furnished TMO's, activities, and major commands for preparing movement orders and arranging for inland transport to the aerial or sea POE's.

(5) Punchards are furnished to POE's for use in preparing vessel or aircraft manifests by ADPE.

8-8. Freight Traffic Routing


At present, computers are used only in an after-the-fact operation to summarize and audit manual procedures.

(1) Hard copy freight warrants (AE Forms 67B and 68B adapted for multinational use) and waybills (DD Form 1384) are prepared by installation transportation officers and mailed to the MCC. From these documents, data are coded and keypunched daily. Data include such basic facts as origin, destination, border crossing points, number and type of conveyances, weight, commodity, and surcharges.

(2) Cards are subjected to an intensive audit and then converted to a transaction tape. A master distance table* is maintained on tape, and the transaction tape is matched to the master distance table through combination of origin, destination, and (on international shipments) border crossing point.**

(3) Kilometers are converted to miles and kilograms to short tons for subsequent calculation of short ton-miles. For commercial traffic, line haul cost is calculated with rate and rated weight derived from a master rate table (tape file).*** Costs are converted from local currency to dollars, and the records for each shipment are complete.

(4) From the completed shipment records, the month's traffic is summarized in a series of printed recurring reports structured for comprehensive analysis. The report formats are subject to change; therefore, traffic is generally shown in terms of short tons, short ton miles, and cost, sequenced by flow, type funds, and/or commodity, within mode.

b. Interim Procedures. The interim procedures for freight routing will depend largely on the availability of computer time and adequate communications. The program to be used by the computer will require little change.

(1) Punched card copies of materiel release orders (MRO's) are received by the MCC from the MMC. Normally, these will be delivered by courier four times each day.

(2) The punchcards are received by the MCC,
and a determination of mode to be used for each MRO is made and punched into the card. (The availability of the various modes at origin can be determined by computer if sufficient storage, programming, and time are available.)

(3) The cards are processed through the computer, which compares them against the master distance table to determine the border crossing point and distance.

(4) Information contained on the MRO punchcard, along with the border crossing point, identifies the movement requirement. It is relayed to the origin and destination TMO’s by radio or TWX (teletypewriter exchange (commercial)).

(5) As a bookkeeping transaction, the MRO punchcard with distance and border crossing point can be compared with the master rate table for determination of costs of the shipment and for comparison with the carrier’s invoice when submitted for payment.

Section III. EFFECT ON THROUGHPUT

8–9. Transit Servicing
As stated earlier, the procedures outlined in this manual are adaptable to either manual or computer operations with the exception of maintaining an in-transit inventory of shipments (para 5–16. This lack of an in-transit inventory of shipments requires that, until computer systems as described in paragraph 8–5 are installed in theaters of operations, the transit servicing (para 7–3) of cargo and/or transporting vehicles must be done manually. The manual procedure increases the time required to carry out this transit servicing from seconds or minutes to hours or even days.

a. Certain of the nationalized railroads of Europe do not keep car record books. Therefore, if a car is set out of a regular train for any reason or fails to make scheduled connections, the location is determined only after telephone calls or other communications with the individual stations and yard checks are made. Under these conditions, a 24- to 36-hour reaction time must be considered as normal. If a transfer operation (rail to truck) is involved in the shipment, time may be even longer. In commercial highway operations, the same general conditions prevail, though to a lesser degree.

b. In a military rail or highway operation, each railway station or trailer transfer point, as appropriate, keeps a record of all vehicles (rail or highway) received or dispatched, along with the time of the action, the appropriate train or convoy number, and the destination of the vehicle. Additionally, yard checks are made periodically to verify the accuracy of the car (trailer) records. Again though, the manual tracing to locate the transporting vehicles before performing any transit servicing is a time-consuming “call and check” method.

8–10. General Cargo
Insofar as scheduled resupply and throughput of most commodities is concerned, the problem of transit servicing seldom arises and the delay inherent in a manual system is acceptable. However, the delays will probably not be acceptable in the resupply of ammunition and essential repair parts, both of which are subject to wide fluctuation as to amount and unit(s) or types.

8–11. Repair Parts
Essential repair parts normally will be scheduled for air movement both from the communications zone (COMMZ) to the field army support command (FASCOM) and within the field army area. The short transit time of the air mode will normally preclude many requirements for in-transit servicing that would arise if the slower rail or highway modes were employed. Should a requirement for change of destination occur, it normally will be met by reconsignment rather than diversion.

8–12. Class V
a. The routine air movement of conventional class V is not feasible within the current time frame owing to the limited airlift available within the theater and the high volume (weight) of ammunition expended by the modern army. Therefore, the transit time for conventional class V from COMMZ to the field army area must be considered as 3 to 5 days, depending on the theater. When the additional (manually processed, as class V resupply is not yet automated) order and processing time (3 days) is added to the transit time, it becomes readily apparent that, from the time an ammunition supply point (ASP) issues class V until it will be replenished from the COMMZ through conventional requisitioning, issuing, and
transportation procedures, 6 to 8 days have elapsed. As it is not possible for a unit to determine in advance the total amount or type of class V that it will expend in any particular combat operation, it is manifestly impossible for a unit to place demands 6 to 8 days in advance to replenish all stocks that may be expended. Some minimum daily expenditures can be determined on a basis of history, and estimates of future requirements can be developed as a result of fire support plans for future operations. Generally, however, units (particularly artillery units) will be unable to forecast their class V requirements sufficiently in advance to depend primarily on direct resupply from the COMMZ.

b. To overcome the problems outlined above, during the period until automatic data processing systems are fully applied to ammunition resupply and to movements (including maintaining an in-transit shipment inventory), the procedures in (1) through (4) below may be applied.

(1) The ammunition general support units will be informed of the requirements of the ASP's which they support. These general support units will also be included as information addresses on report of shipment (REPSHIP) for each class V shipment into their areas of responsibility. They will be responsible for maintaining information on incoming shipments by vehicle or car number, convoy number (if applicable), and the contents of each shipment, including size, amount, and type of ammunition.

(2) When rail transport is available to ASP's (direct support units), the ammunition supply service will identify for delivery by rail to the ASP's those items which can be identified either as minimum daily expenditures or known buildup supplies.

(3) If rail transport is available only to general support units and there is sufficient capacity to move all class V by rail, the shipments outlined in (2) above will be consigned to the general support units. In this case, the general support unit is responsible for physically handling the cargo and arranging with the local transportation movements office (TMO) for onward movement.

(4) Each motor transport unit (convoy or individual truck) carrying class V from the COMMZ to either general support or direct support units in the field army area will be required to report to the last highway regulating point (HRP) before the general support unit where diversion can be economically made. Prior to arrival of the vehicle or convoy, the ammunition general support unit is responsible for notifying the TMO serving the general support unit of any diversion requirements (general support to ASP and vice versa) by truck and convoy number. The TMO will contact the mode operator to carry out the requested diversion.

Section IV. BACKUP FOR AUTOMATIC DATA PROCESSING EQUIPMENT OR COMMUNICATIONS FAILURES

8–13. Types of Failures
Before determining the type of backup system to be employed for a particular systems failure, the nature of the failure must be described; for example—

a. Unplanned local power outages of short duration.

b. Planned local power outages of short duration.

c. Unplanned local power outages of prolonged duration.

d. Electronic or electromechanical ADPE (automatic data processing equipment) failure.

e. Nonavailability of electronic or electromechanical ADPE due to displacement.

f. Disruption of normal communications of short duration.

g. Disruption of normal communications of prolonged duration.

b. Destruction of the ADP center.

8–14. Decisions to Use Backup System

a. Each type of failure requires a decision as to whether or not to use the backup capability. This decision is based, among other factors, on the following:

(1) The probable duration of the failure or disruption.

(2) The degree to which the system is degraded by the failure.

(3) The effect the failure is having or will have upon the mission of the supported forces.

b. The supplies within the transportation system (actually on transport) or processed material release orders (MRO's) included in the movements program and in the hands of origin transportation movements offices (TMO's) constitute a separate set of factors for consideration. At any
given time there are, depending on the theater, the following amounts of supply in the transportation system:

1. Three to five days of resupply en route from the communications zone (COMMZ) to the field army area.

2. Two to three days (or more of resupply in the form of processed MRO’s in the COMMZ which have not been loaded on transport and dispatched to the field army area.

3. En route and in-process supplies (variable amount) from general support units in the army service and corps support brigade areas to direct support units.

8-15. Probability of Failure

a. All electronic and electromechanical ADPE is subject to failures. The exact time of failure and type of failure cannot be predicted precisely; however, the movement of ADPE (and its consequent outage during movement) can be planned. Within the current state of the art, the mean time between failures for ADPE is in excess of 1,000 hours and the mean time to repair ADPE is less than 1.5 hours.

b. From a statistical standpoint, it is possible for all ADPE or all communications (landline or landline and radio) to fail simultaneously, though such probability is extremely remote.

8-16. Backup Systems for Remote Devices

The problem of remote device failure or nonavailability during displacement can be solved by rerouting messages to an alternate device, by using alternate devices to communicate within the system during the period of nonavailability, or by deferring messages during the period of movement. An interruption of normal communications between remote devices and the computer center can be overcome by the following:

a. Transmission of card decks or taped information by courier.

b. Using telephone, teletype, or radio to transmit necessary information, with input/output information prepared in required format at the computer or input/output device, as appropriate.

c. Holding in abeyance input/output transmissions until communications are restored. This last procedure should be adopted only if it is known that the interruption will be of short duration.

8-17. Communications Backup

a. Disruptions to communications of short duration will normally have little influence on the movements control section of the combat service support system (CSS) for automatic data systems within the army in the field (ADSAF). The supplies within the transportation system and those being processed for movement (para 8-14b above) will provide sufficient continuity and a working base for a 24- to 36-hour period. Should such an interruption occur, the primary effect will be on the in-transit shipment inventory system. To reinstate the system, the movements control center (MCC) should provide in its standing operating procedures (SOP) that—

1. When an interruption occurs, origin, passing, and destination reporting locations will continue to compile information required by the system and will prepare necessary punchcards or tape for transmission to the central computer facility when communications are restored. It is important that such transmissions carry a time indicator.

2. After each 3 hours of continuous communications outage, “passing” reporting stations will file in the office passing reports by car or truck number. These filed reports normally will not be subsequently transmitted for inclusion in the shipment inventory system although they may be required for statistical summaries or other reports.

3. Based on the estimated time of arrival (ETA) contained in the advice of shipments previously furnished, destination TMO’s will query the MCC as to the status of any shipments which have not arrived within 3 hours (air), 8 hours (highway), or 12 hours (rail) after their ETA.

b. When communications which have been disrupted for more than 3 hours are restored, the origin reporting station will be given first access to the computer to report shipments dispatched since the start of the disruption. Destination reporting stations will be given second access to the computer to report receipts since the start of the disruption. After these transmissions are complete, “passing” stations will resume reporting on a current basis. These procedures will permit a sequential flow of information to the computer and will preclude numerous unnecessary checks of input information rejected by the computer. Otherwise, passing or arrival reports of shipment could be fed into the computer before the basic information of the shipment (contained in the report of shipment) was received. The report
would be rejected by the computer and would require manual processing as an exception to the computer program.

c. When communications are disrupted for prolonged periods, transmitting information to and from the computer can be by any of the methods described in paragraph 8–16 above. If a courier service is established, it should contact each TMO at least twice daily to pick up and deliver essential information in the form of tape or punchcards, as appropriate. This service will permit the programming of movements to be handled by the computer though it will increase reaction time of field TMO's and transport mode operations. During periods of prolonged disruptions to communications, it will not be feasible to maintain an in-transit shipment inventory. To provide for this contingency, joint SOP's should be established among the MCC's mode operators, and supply activities to provide for implementing procedures similar to those described in paragraph 8–12 above.

8–18. Computer Backup

a. In discussing computer backups, certain salient assumptions must be made.

(1) The movement control activities will share the CS, ADPE facilities at support brigade, field army support command, and corps support command.

(2) All ADPE used by the CS, will be identical and interchangeable.

(3) It will not be necessary to employ the backup facilities and procedures for all ADPE failures. As noted above, a limited degradation of facilities of ADPE failures of short duration can be accommodated within the movements control system.

b. As all ADPE is interchangeable within the CS, during a prolonged disruption of computer service at the support brigade level another support brigade provides backup. A program repertory and periodic memory dumps from the primary computer will be transmitted by courier to some relatively invulnerable point in the brigade area for storage. When required, they will be transmitted by courier to the backup of ADP center. The remote devices which communicate to each ADP center must be switchable to all alternate ADP centers.

c. A support brigade computer will be designated as the backup for the FASCOM computer in the manner described in b above.

d. In the theater army support command, the computer of the personnel administration center and the MCC are alternates for each other. Each contains the program repertory of the other, and memory dumps are handled as described in b above. Additionally, the memory dump of the MCC computer can be printed in a form usable as the base point for manual procedures in the event of total loss of computer capability.
# APPENDIX A
## REFERENCES

### A-1. Regulations

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<td>and Allocations, and Priorities.</td>
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<td>AR 310-3</td>
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<td>AR 320-5</td>
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### A-2. Field Manuals

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<td>Route Reconnaissance and Classification.</td>
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<td>Tactical Signal Communications Systems, Army, Corps, and Division.</td>
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<td>19-2-1</td>
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<td>Transportation Services in a Theater of Operations.</td>
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<td>101-10-1</td>
<td>Staff Officers' Field Manual: Organizational, Technical, and Logistical Data—Unclassified Data.</td>
</tr>
<tr>
<td>101-40</td>
<td>Armed Forces Doctrine for Chemical and Biological Weapons Employment and Defense.</td>
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### A-3. Tables of Organization and Equipment

<table>
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<tbody>
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<tr>
<td>55-2</td>
<td>Headquarters and Headquarters Company, Transportation Command.</td>
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55-6 Headquarters and Headquarters Detachment Transportation Movement Control Center.
55-7 Transportation Movement Control Company (Support Brigade).
55-52 Headquarters and Headquarters Company, Transportation Composite Group.
55-62 Headquarters and Headquarters Company, Transportation Brigade.
55-500 Transportation Service Organization Headquarters Units.
55-560 Transportation Terminal Service Teams.

A-4. Forms
DA Form 1322 Daily Installation Situation Report.
DA Form 1598 Record of Comments on Publications.
DD Form 6 Report of Packaging and Handling Deficiencies.
DD Form 1265 Request for Convoy Clearance.
DD Form 1384 Transportation Control and Movement Document.
DD Form 1385 Cargo Manifest.
DD Form 1386 Ocean Cargo Manifest Recapitulation or Summary.
AE Form 67-B Freight Warrant.
AE Form 68-B Freight Warrant.
APPENDIX B
REPORTS AND PUBLICATIONS FOR TRANSPORTATION MOVEMENTS

B-1. Installation Capacity Report

The format for the installation capacity report is prescribed by the theater army support command (TASCOM) or the field army support command (FASCOM) commander, as appropriate. It is submitted by each shipping or receiving activity at the time the activity is organized, and changes are submitted as they occur. The report normally contains the information outlined in a through i below and is transmitted through command channels to the movements control center (MCC) serving the area in which the activity is located.

a. Name and consignee code.

b. Location of installation by map coordinates and by reference to named or numbered streets if in a town or city, or by reference to state, national, or main supply routes and distances between readily identifiable locations.

c. Telephone number, TWX (teletypewriter exchange (commercial) ) call sign, and APO address.

d. Summary of shipping and receiving facilities for freight and passengers by air, highway, rail, and waterway, as appropriate. This summary should include all facilities for each service. For example, waterway would include the length of piers or quays, location, depth of water, types and capabilities of cargo handling equipment, open storage, warehouses, types of commodities, and tons or barrels of commodities that can be handled per day.

e. Heavy lift capabilities by type and maximum lift capacity normally available; if these are peculiar to a specific mode, this is indicated.

f. Availability of facilities for receipt of cargo containers (for example, CONEX (container express)) for each mode of transportation.

g. If appropriate, capability to handle class A and B explosives.

h. Passenger destinations to be shown on transportation requests for air, rail, or highway movement.

i. Any other information as to capabilities or limitations that would influence the receipt or shipment of cargo at the facility.

B-2. Daily Installation Situation Report
(fig. B-1)

Installation commanders are responsible for preparing and submitting the daily installation situation report (DA Form 1322) through command channels. A copy of the report is furnished the transportation movements office (TMO) serving the installation. The report covers the current status of movement and transportation equipment originating or terminating in an activity and is normally prepared as of 1800 hours daily, by mode.

B-3. Facilities and Services Guide

The facilities and services guide is developed and prepared by the MCC. It is distributed to all agencies concerned with procuring and furnishing transportation service.

a. The guide normally contains the following information for each shipping, transshipping, or receiving activity:

   (1) Name, location, and type of installation.

   (2) Available communication facilities.

   (3) Serving TMO—designation, location (relative to the indicated installation), and available communication facilities.

   (4) Cargo handling information—operating hours, maximum capacity of materials handling equipment, commodity restrictions if any, and loading and unloading capabilities (short tons (STON) per day) for each mode or combination of modes. If facilities are available to handle special commodities, such as bulk POL (petroleum, oil, and lubricants), class A and B ammunition, or perishables, specific information as to handling and storage capabilities is included.
(5) Passenger service information for unit and group movements and for individual travelers.

(6) Rail service—designation and location of railhead, type and availability of service, and track facilities and capacities within the installation and at the railhead.

(7) Motor transport service—route number of the highway serving the installation, type and availability of service, and facilities for parking, loading, and servicing vehicles.

(8) Air service—designation and location of nearest air facility with respect to indicated installation, and type and availability of service; availability and marking of helipad within the installation for receiving and shipping personnel and cargo.

b. Similar information is provided for other transport mode services if available.

B–4. Transport and Travel Regulations

Normally, the TASCOM commander is responsible for publishing transport and travel regulations for the theater or the theater army. These regulations supplement Joint or Army regulations for transportation documentation requirements and procedures and for packing, marking, and labeling shipments.

a. Transportation Documentation. Theater transportation documentation requirements usually are developed and published by the TASCOM MCC for the TASCOM commander, based on military regulations and on international agreements with host and allied nations. The documents developed are those instruments needed to control supplies while they are moving over the transportation system and may include freight waybills, travel warrants, transportation control and movement documents, and military freight warrants. The documents may be bilingual or multilingual and may duplicate, in part, the information required in U.S. forces forms. However, such duplication is necessary to obtain transportation support and to provide for reimbursement for such support when furnished to or by U.S. forces. Disputes between shippers and transport mode operators pertaining to documentation are referred to the local transportation movements officer who, in his capacity as intermediary between shipper, receiver, and carrier, will obtain clarification. Transportation movements personnel are authorized to refuse to release shipments which are improperly documented as such shipments are potential problems to the transportation system.

b. Packing, Packaging, Marking, and Labeling. Like transportation documentation, the theater requirements for packing, packaging, marking, and labeling are based on regulations of U.S. forces and of host nation transport mode operators. Normally, the requirements will be contained in official publications of the host nation regulatory agencies and in the theater transportation and travel regulations. Compliance with theater regulations governing packing, packaging, marking, and labeling is a responsibility of the shipping activity commander. Transportation movements officers are available to offer advice and assistance to assure that theater regulations are met. Violations of such regulations should be reported promptly by either carrier or consignee using DD Form 6 (Report of Damaged or Improper Shipment) or such other form as is prescribed by host nation transport operators.
APPENDIX C

SOLOG AGREEMENT 27
PRINCIPLES AND POLICIES OF MOVEMENTS

SOLOG AGREEMENT 27
(Revised)

DETAILS OF AGREEMENT
PRINCIPLES AND POLICIES OF MOVEMENTS
(Studies C17, C19, C35 and C36)

General Remarks
1. Standard terminology is not essential to this study.
2. Any standard terminology applicable to this study which later may appear to be desirable may be forwarded directly to the Military Agency for Standardization Terminology Coordinator for Standardization consideration.

SOLOG Agreement

PART I—PRINCIPLES OF MOVEMENTS (C17)
The ABC Armies agree that the principles of movements are:
1. Control of movements will be centralized to the highest level at which it can be adequately exercised.
2. Movements will be regulated.
3. Movements will be fluid and flexible.
4. Maximum utilization will be made of carrying capacity.

PART II—MOVEMENTS* RELATIONSHIPS (C19)
The ABC Armies agree that:
1. The relationships between Movements* and the transport services will be:
   a. Movements* will decide the mode of transport necessary to implement the movements program.
   b. Movements* will allocate traffic by tonnage and destination.
2. The relationship with transport users will be:
   a. Movements* will be the agency to which all users of transport will go to obtain transport space.
   b. Movements* will be the intermediary between transport users and transport services, except local and/or internal hauls.
3. Movements* will decide, in accordance with Movements Plan, what will be moved, where it will be moved, when it will be moved, and the mode of transport, but not how the selected transport service will operate.**

PART III—MOVEMENT EMBARGOES (C35)
It is agreed among the ABC Armies that:
1. "Movements Embargoes" be adopted as the tripartite term for restrictions temporarily placed on traffic into and/or out of installations to permit clearance of or prevention of congestion.
2. Movement embargoes be placed only by authority of the commander cognizant of the effect of an embargo on overall logistical problems.

3. Movement embargoes be implemented through Movements* Staff channels.

PART IV—MOVEMENTS PRIORITIES (C36)

It is agreed among the ABC Armies that:

1. Movements Priorities are the order of precedence of movements within assigned allocation.

2. Overall policy for priorities is expressed by the theater command.

3. Movements personnel* interpret this policy and disseminate the necessary information to accomplish movements by means of detailed movements programs and instructions.

* The Q Movements Staff in the British Army.

** The Transportation Movements Staff in the U.S. Army.

** In the case of British Road Movement, the Movements* Staff may issue instructions regarding routes, timings, etc.
(Annexes A–D to appendix C have been prepared by U.S. forces to amplify the content of the original SOLOG.)

ANNEX A TO APPENDIX C

CENTRALIZATION

1. Example

a. Figure C-1 represents a transportation system which passes through sections of the theater army support command (TASCOM). AB represents the main line. OC represents a feeder line. Point O represents a transfer point. Line AOB has a capability of 1,000 tons a day. There is a requirement to move 1,000 tons a day from A to B. If an attempt is made to move traffic from C through O to B while the authorized requirement of 1,000 tons a day is moving from A to B, the following are some of the difficulties that could arise:
   (1) Nonfulfillment of the authorized move from A to B.
   (2) Congestion at point O.
   (3) Congestion along lines OA and OC.
   (4) Nonfulfillment of the move from C to B.

b. It is evident that the commander at point C should be instructed not to ship to point B when the total of AOB and CO traffic exceeds the capacity of the OB line. If these commanders are located under separate commands, such instructions should come from that echelon which has control of both commands. Furthermore, the commander authorizing the move from A to B must be in a position to assure that the instructions are carried out so that line AB will remain clear while the move is being executed. To do this adequately, control must be centralized at that level of command which has jurisdiction over the shipping and receiving points using the line and the transport service organizations operating the line. That echelon of command is the TASCOM headquarters. Additional study of this principle indicates that the commander authorizing the move from A to B should assure that the transport elements which form the line AB have the capability to carry the traffic and that the transportation services contribu-

Figure C-1. Centralized control.
ing to the system are coordinated so as to form a transportation net which will offer maximum through service from origin to destination.

2. Guidelines

In the implementation of this first principle of movements, commanders are guided by the following:

a. The commander responsible for the operation of a transportation system will be at that level of command where he can coordinate the activities of the services and users in such a manner to form an integrated transportation system for the command.

b. The commander responsible for the operation of a transportation system will secure the means necessary for movement and will have control over the manner in which the movement capability will be used.

c. Transportation movement management organizations and their subordinate field offices will be employed where necessary to assist other personnel engaged in the performance of transportation duties.
1. Example

Figure C-2 represents a transportation system. In this system each of the shipping points A, B, C, and D has a requirement for shipment to E of 1,000 tons during a week's period. The capability of the terminal at O is 1,000 tons daily. The capability of each line, AO, BO, CO, and DO is 1,000 tons daily. If A, B, C, and D each shipped its requirement on the same day, there would be a congestion throughout the system. However, by regulating the moves and having each of the shippers A, B, C, and D ship on separate days or ship 250 tons on each of four different days, the requirement can be met. This regulation must be directed from a central headquarters as indicated in the explanation of the first principle of movement. The regulator must plan well in advance how to use the available capability; he must assure that an integrated system is formed, and he must publish concise information to the participants in the system which will clearly indicate how the system is to be used.

2. Guidelines

In implementing this second principle of movements, commanders are guided by the following:

a. Independent use of a transportation system will not be made by participants of the system.

b. The movement of traffic over a transportation system must be programmed to the maximum extent possible.

c. A system for accomplishing nonprogramed movements will be devised and disseminated by the commander operating the transportation system. This is particularly true within the field army where the requirement for transporting nonprogramed shipments increases as the combat service support effort moves toward the division area. (Combat service support is all of the logistic and administrative support services performed in the theater, including those performed by units that have a dual combat support, combat service support mission.)

d. Priorities for movement will be established by the commander responsible for the activities of the users.

e. Requests for the use of a transportation system will be made through transportation movement channels.

f. Rules, regulations, and procedures governing the preparation, loading documentation, and unloading of traffic will be established jointly by the transport services, users, and movements management agencies and will be promulgated through command channels by the commander responsible for the activities of participants in the system.
1. Example

Figure C–3 represents a transportation system. There is a requirement to move 1,000 tons a day from A to D, A to B, and A to C. The capability of each line is 3,000 tons. The capability to ship at A is 3,000 tons. The capability of each receiving point is 2,000 tons. It is evident that supplies can flow from origin to destination without interruption: the system is fluid. If the line OX were destroyed, the system would be flexible enough to maintain fluidity by directing the flow of supplies over AOC and AOCXB. However, the system is not flexible from the standpoint of moving supplies to D because, if the lines from A to D were destroyed, fluidity would be lost since there is no way (in the example) to keep supplies moving to D.

2. Guidelines

In implementing this third principle of movements, commanders are guided by the following:

a. Shipments will not be initiated until it has been determined that movement capability exists throughout the transportation system to effect continuous movement to destination.

b. Transportation users and services at origin, en route, and at destination will notify movement personnel concerning any factors which will adversely affect the fluidity or flexibility of movements.

Figure C–3. Fluidity and flexibility.
1. Example

Figure C-4 represents a transportation system. There is a rail line from A to C. The segment of track from A to B can carry 4,000 tons of cargo during a 24-hour period. The segment of track from B to C can carry 2,000 tons. The situation indicates that it is not feasible to increase the capacity of this track. Point C can receive 4,000 tons daily. Thus, because of the limitation between B and C, only half of the movement capability at C is being utilized. In order to improve the situation, a highway haul might be established from A to C with a truck unit that has an available carrying capacity of 1,000 tons over this distance. This will result in an increase of the total movement to C to 3,000 tons, and thus only one-fourth of the capability of C will be idle. However, one-half of the available carrying capacity of the rail unit AB will still be idle. By the establishment of a rail-truck transfer point at B and the use of this same truck unit to haul 2,000 tons from B to C instead of 1,000 tons from A to C, there will be 4,000 tons flowing into C; thus there will be no wasted capability at C. There will be 4,000 tons moving from A to B; thus the equipment of the transport services will be used efficiently.

2. Guidelines

In implementing this fourth principle of movements, commanders are guided by the following:

a. Unnecessary transshipment and rehandling of supplies will be minimized. By moving supplies as far forward as practicable by one means of transport, intermediate supply installations will be bypassed. This supports the throughout concept discussed in paragraph 5-2.

b. Backhauling will be kept to a minimum. This is important because of the relatively austere transport capability and number of supply handlers and terminal transfer personnel authorized in the theater.

c. Crosshauling will be eliminated whenever possible. The demands for road and rail space by allied nations in the theater army support command area and for tactical and nontactical moves in the field army area make this a particularly important requirement.

d. Turnaround time will be kept to a minimum. A transport service has the primary role of moving persons and things. The efficiency of the mode depends upon maintaining a favorable ratio of traveltime to loading and unloading time. In addition, the requirement to reduce congestion and vulnerability places emphasis on this principle in the combat zone.

e. Loss and damage will be kept at a minimum. Lost or damaged cargo increases the requirement for transportation to provide a replacement. A damaged item of transport equipment represents lost transport capability and an increased requirement for manpower and repair parts supply to restore it to operable condition.

Figure C-4. Maximum use.
APPENDIX D

SOLOG AGREEMENT 30

MOVEMENTS—GENERAL

SOLOG AGREEMENT 30

DETAILS OF AGREEMENT

MOVEMENTS—GENERAL

(Studies C22, C25, C27)

General Remarks

1. Standard terminology is not essential to this study.
2. Any standard terminology applicable to this study which later may appear to be desirable may be included in an amendment to this agreement or may be agreed through the Terminology Coordinator, MAS.

SOLOG Agreement

PART I—Movements Armbands (Study C22)

1. The ABC Armies agree that a need exists for a standard armband in movements activities.
2. It is agreed that the standard armband will be lettered with the letters "MOV." This will be a white band 16½" long and 3½" wide with the letters "MOV" in black letters 1" high in a 3" block. It will have four dome fasteners 1" apart.
3. It will be worn in accordance with the uniform regulation of the country concerned.
4. It will be worn by personnel assigned to Movements Groups or detachments. In the British Army Q, Movements Staff officers will wear normal staff armbands.

PART II—Designation and Identification of OC Troops (Train) (Study C25)

1. It is agreed that the ABC Armies will adopt signs for the officer commanding the troops. These signs will be approximately 18" x 24", with background color white and with the letters “OC TROOPS (TRAIN)” in black as shown on attached appendix A.
2. It is also agreed that similar sign will be adopted with the letters "MOV Train Staff" to identify the compartment of the Movements Personnel assigned to the trains. See appendix B.

PART III—Movements Office Identification (Study C27)

1. It is agreed that the ABC Armies will adopt a standard Movements Office Identification.
2. It is further agreed that this identification will be a rectangular sign with the lower part to have a white background with the letters "MOV" in black. The upper part will have a black background with the geographical location of the office in white.
3. It is also agreed that the inclusion of additional wording may be made after the letters “MOV” to identify further the specific task of movements detachment. (Example: MOV–MFO to identify a Military Forwarding Organization.)

NOTE: The above identification applies to the Movement Control unit or detachment offices and not to the Movement Staff offices, which will be marked in accordance with regulations laid down for marking headquarters at which Movements Staffs are located.

\[\text{OC}
\begin{tabular}{c}
TROOPS  \\
(\text{TRAIN})
\end{tabular}
\]

\(\frac{1}{4}\) Actual Size

Figure D-1. Appendix A to SOLOG Agreement 90.
MOV TRAIN STAFF

1/4 Actual Size

Figure D-2. Appendix B to SOLOG Agreement 39.
APPENDIX E

SOLOG AGREEMENT 31

MOVEMENTS DUTIES IN THE FIELD

SOLOG AGREEMENT 31
(Revised)

DETAILS OF AGREEMENT
MOVEMENTS DUTIES IN THE FIELD

The Armies of the United States, United Kingdom and Canada agree to the following:

PART I—STANDING INSTRUCTIONS OC TROOPS (TRAIN)
(STUDY C40)

1. The term “OC Troops (TRAIN)” will be adopted. However, the term “OIC Troops (TRAIN)” may be used by United States Forces, when desired.

2. In movements involving small units or casual personnel, the movement personnel at entrainment station appoint “OC Troops (TRAIN),” unless this officer has been appointed by higher headquarters.

3. The duties and responsibilities of the “OC Troops (TRAIN)” will include but not be limited to the following:

a. During Entrainment:
   (1) Submits movement orders and/or authority to movements personnel.
   (2) Insures by checking with Movements Control personnel that troops, baggage, vehicles and other equipment are loaded according to Movement Instructions.
   (3) Informs troops of location of “OC Troops (TRAIN)” compartment and medical facilities, if available.
   (4) Appoints one or more officers or NCO’s as assistants and/or car commanders who will be appointed for every car.
   (5) Makes inspection of train facilities, arranges for security, and completes “Train Inspection Report” with movement control personnel and a railway representative.

b. En route
   (1) “OC Troops (TRAIN)” is at all times responsible for sanitary arrangements, the discipline and protection of the men on the train and will conform to instructions given by movements personnel or railway operating personnel. Operation of the train is the responsibility of railway personnel.
   (2) Discipline—Enforces orders prohibiting:
      (a) Detraining without permission.
      (b) Throwing anything out of windows.
      (c) Leaning out of windows or doors.
(d) Marking or writing on railway equipment.
(e) Unauthorized use of flammable equipment.
(f) Damaging railway equipment.
(g) Violation of security regulations.
(h) Waste of water in lavatories.
(i) Riding anywhere on trains except where authorized.
(j) Interference with railway operations.
(k) The use of intoxicating liquors during the journey.
(l) The unauthorized possession of live ammunition.

(3) Current standing instructions in the event of sickness, death or absence without leave will be observed.
(4) He will comply with all instructions received en route.

c. During Detrainment
   (1) Insures by checking with movement control personnel that troops, baggage, vehicles and other equipment are unloaded according to Movement Instructions.
   (2) Completes “Troop Inspection Report” and any necessary documentation.

PART II—TROOP TRAIN INSPECTION REPORT (STUDY C50)
The standard Troop Train Inspection Report contained in appendix A will be adopted.

PART III—MOVEMENTS DUTIES IN THE FIELD (STUDY C47)
Movements** Personnel will be located in the areas where personnel and/or freight movements originate, terminate or are diverted or reconsigned. They will perform the following functions:

1. Establish and maintain close relationship with service installations, i.e., depots, etc., and representatives of transport services in the area.
2. Maintain current information including location of local units, installations and depots, movement requirements, changes in movement capabilities, and status of the local transport situation.
3. Consolidate non-programed movement requirements of local units, installations, and depots, and arrange for transport services in connection therewith.
4. Supervise execution by users and operators of the movement program and/or movement instructions issued by the Movements Staff*.
5. Insure efficient use of transport capabilities allocated by the Movements Staff*.
6. Prepare plans when required for local employment of transport.
7. Effect reconsignment and diversion instructions as required by appropriate authority.
8. Preclude congestion by recommending to the Movements Staff* the establishment of priorities and/or embargoes or other appropriate actions.
9. Take necessary action upon receipt of:
   a. Information regarding the arrival and dispatch of traffic.
   b. Requests for information concerning the movement of traffic, losses/discussions, etc.
10. Advise local commanders on movement matters.

* Q Movements Staff in the British Army.
   Transportation Movements Staff in the U.S. Army
11. When required arrange itineraries, reservations, and the issue of the necessary travel documents for individuals and small groups.***

12. Insure adequate movements documentation.

13. Insure that all ordered security measures concerning movement of personnel and freight are complied with.

14. Perform such other movements** duties as may be prescribed by proper authority.

** Movement Control in the British and Canadian Armies.

*** Movement Control Service in the British Army

Transportation Movements (Region/District) in the United States Army

PART IV—MOVEMENT CHECK/**STANDARD TRACER
(STUDY C54)

1. After a consignment enters the transportation system, within a theater of operation, the capability must exist for locating it at any time in order that it can be expedited, diverted, reconsigned or held intransit when occasioned by changes in the tactical or logistical situation, or of locating it in the event it is missing or does not reach its destination within a reasonable period of time. A standardized form is required for transmitting data to movements*** personnel in the field so they can assist in locating consignments. This form to be known as a *Movement Check/ **Standard Tracer.

2. The *Movement Check/**Standard Tracer normally will be prepared by the consignor or consignee and furnished to the local movements*** office who will in turn contact the transport service(s) involved in the move. The transport service will determine and report on the current status of the consignment.

3. The use of this code will facilitate transmission, by using "MOV-CHECK/STDTRACER" followed by the letters representing the paragraphs below and the pertinent data.

   a. Consignor and location
   b. Consignee and location
   c. Waybill or similar document number
   d. Means of transport and name/number of vessel/car or wagon/truck/lorry. (If truck/lorry, give designation of unit to which truck/lorry is assigned.)
   e. Date loaded and dispatched
   f. Details of route
   g. Any identification numbers or marks known
   h. Commodity description
   i. Number of pieces
   k. Type container
   l. Total deadweight of consignment
   m. Total measurement weight of consignment
   n. Reference to movement program or instruction (as applicable)
   p. Instructions when consignment is located (e.g., expedite, divert, reconsign, hold intransit and/or additional details as appropriate)
   q. Remarks

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* In the British and Canadian Armies

** In the United States Army

*** Movement Control Service in the British Army

Transportation Movements (Region/District) in the United States Army
SOLOG AGREEMENT 31  
(Revised)

APPENDIX A  
TROOP TRAIN INSPECTION REPORT

<table>
<thead>
<tr>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

*UNIT IDENTIFICATION__________ TRAIN NO.______________

FROM____________________ TO____________________

(List ALL coach/car initials, numbers and damaged items. If nil, indicate.)

<table>
<thead>
<tr>
<th>COACH/CAR NO. &amp; TYPE</th>
<th>CONDITION OF COACH/CARS PRIOR TO ENTRAINMENT (see reverse side)</th>
<th>CONDITION OF COACH/CARS AFTER DETRAINMENT (see reverse side)</th>
</tr>
</thead>
<tbody>
<tr>
<td>* * * * * * * *</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Inspected prior to entrainment by: (Signature)  
Inspected after detrainment by: (Signature)

1. Entrainment TO/MC Det** ______  1. Detraining TO/MC Det ______
2. OC Troops (Train)*** ______  2. OC Troops (Train) ______

REMARKS: Use reverse side for detailed explanation of cause of damage.  
Inspection to be made by military personnel whether or not railroad representative is available.

*When security regulations prohibit it, titles of units will not be shown and units will be described by their unit security serial number.
**Transportation Officer/Movement Control Detachment.
***To be signed by OC Troops (Train), or his representative, and should be the same officer making inspection at entraining and detraining points if possible.
INSPECTING PERSONNEL WILL CHECK THE FOLLOWING

1. Coach/car floor free from dirt and in sanitary condition.
2. Seats clean and free from tears.
3. No broken windows or doors.
4. Ventilators in proper order.
5. Lavatories in working order and properly supplied with water.
6. Toilets clear and sanitary: flushing apparatus in working order, and sufficient supply of toilet paper.
7. Water tanks filled (and iced if applicable). Extra water containers available in each coach/car.
8. Lighting fixtures in working order and coach/car properly lighted for night travel.
9. Platforms and steps of each coach/car safe and secure.
10. Passage used by passengers between coach/cars to be guarded by diaphragms/covered gangway; if not, arrangements to be made for equipping with chains or heavy ropes.
11. Emergency/communication cord.
12. Fire apparatus.

ADDED REMARKS
SOLOG AGREEMENT 50

TRAFFIC DISPATCH ADVICE

The Armies of the United States, United Kingdom and Canada agree that standardized advices/reports for personnel and freight movements will serve to simplify operations and economize on transportation, by insuring advance information to the receiver; so that arrangements can be made for unloading and handling the movement upon arrival.

The Armies further agree that the format and content of these advices will be as indicated in Appendices A&B hereto.


SOLOG AGREEMENT 50
(Appendix A)

*TRAFFIC DISPATCH ADVICE—(TDA)/REPORT
OF SHIPMENT—(REPSHIP)
PERSONNEL

(a) Authority and/or consignment/movement number.
(b) Place of departure.
(c) Time and date of departure.
(d) Number of personnel by appropriate rank or group classification, including unit security designation, if applicable.
(e) Destination and estimated time of arrival. (State ETA at exchange point, when applicable.)
(f) Identification of IWT craft, aircraft, train or road transport, by name, number or code designation.
(g) Details of baggage and equipment accompanying, i.e., location, weight and cube.
(h) Name of OC Party (OIC Troops (Train), etc.).
(i) Additional information and instructions, if necessary.

Note: 1. Code designators may be used rather than clear text, where applicable.
2. This agreement does not replace advices for movements by sea for the United States and the United Kingdom.
3. This agreement includes advices for movements by air only to the extent required by movements offices in the ABC Armies.
* This form is designated “TDA” in the United Kingdom and Canada; and “REPSHIP” in the United States.
SOLOG AGREEMENT 50
(Appendix B)

*TRAFFIC DISPATCH ADVICE—(TDA)/REPORT OF SHIPMENT—(RESHIP)
FREIGHT

(a) Authority and/or consignment/movement number.
(b) Place of departure.
(c) Time and date of departure.
(d) Consignor or code designation.
(e) Consignee or code designation.
(f) Mode(s) of transport, including route.
(g) Truck, car/wagon, IWT craft, or aircraft number, as applicable.
(h) Consignor's number(s)/Bill of Lading number(s).
(j) Number of cases per truck, car/wagon, IWT craft, or aircraft.
(k) Weight of freight loaded per truck, car/wagon, IWT craft, or aircraft.
(l) Cube of freight loaded per truck, car/wagon, IWT craft, or aircraft.
(m) Description of commodity in general terms.
(n) Destination and estimated time of arrival. (State exchange points and ETA at exchange point, when applicable.)
(p) Additional information and instructions, if necessary.

Note: 1. Code designators may be used rather than clear text, where applicable.
2. This agreement does not replace advices for movements by sea for the United States and the United Kingdom.
3. This agreement includes advices for movements by air only to the extent required by movements offices in the ABC Armies.
* This form is designated “TDA” in the United Kingdom and Canada; and “RESHIP” in the United States.
APPENDIX G

STANAG 2041

OPERATIONAL ROAD MOVEMENT ORDERS, TABLES AND GRAPHS

Agreed English/French Texts

STANAG 2041
(Edition No. 2)

DETAILS OF AGREEMENT (DofA)
OPERATIONAL ROAD MOVEMENT ORDERS, TABLES AND GRAPHS

Annexes: A (DofA). Example of an Operational Road Movement Order.
B (DofA). Specimen Road Movement Table.
C (DofA). Example of a Road Movement Graph.

AGREEMENT

1. The NATO Armed Forces agree to use the standard layouts for operational road movement orders, road movement tables and graphs as given in Annexes A to C (DofA). The instructions given in subsequent paragraphs are in amplification of these layouts.

ORDERS

2. Warning orders and operational road movement orders are of primary concern to those responsible for movement by motor transport. However, standing operating procedure/standing orders may also contain information vital to the conduct of movements by motor transport.

   a. Warning Orders.

      (1) A warning order is a preliminary notice of an order or action which is to follow. It is designed to give subordinates time to make necessary plans and preparations.

      (2) A warning order is of value in alerting troops and preparing them for movement, before receipt of the detailed operation order for the movement. A warning order may be issued orally or in message form. The fact that it is only a warning order will always be indicated.

      (3) A warning order should be as brief as possible but should include the following items when applicable:

         (a) Probable tasks or movements.
         (b) Earliest time of movement or degree of notice.
         (c) Rendezvous and time of order group, if any.
         (d) Orders for movement of reconnaissance or advance parties.
         (e) Administrative instructions affecting the resting or feeding of troops, regrouping of transport and preliminary movements.

      (4) Timeliness is the essence of warning orders.

   b. Operational Road Movements Orders. (See Annex A (DofA)).

      (1) An operation order for road movement is an order issued covering the details for the movement of a formation/unit by road.
The order should be issued in sufficient time to allow subordinates to make their plans, issue their orders, and complete their preparations for the movement. The amount of detail given in such orders depends on the tactical and traffic situation, the state of training of the formation/unit, and the extent to which standing operating procedure/standing orders have been completed.

Fragmentary orders may be used; but when time permits, a detailed order is issued in the form of the five-paragraph Operation Order (STANAG 2014). Annexes to the order may include a road movement table, administrative/logistic annex, etc. When administrative/logistic details are too voluminous for convenient inclusion in the order, an administrative/logistic order or an administrative/logistic annex to the Operation Order will be issued (STANAG 2032).


The following are some headings that may be used as a guide in drafting standing operating procedure/standing orders for a formation headquarters. This list is not complete and will vary with circumstances, particularly in different theatres of war:

1. Composition and duties of advance party.
2. Vehicle loads, including personnel.
3. Grouping of vehicles and group commanders.
4. Organization of columns.
5. Sign-posting and traffic control.
6. Responsibility for manning start point and release point.
7. Discipline; halts; lighting.
8. Action in the event of enemy attack.
9. Drill for establishing headquarters on arrival.
11. Inspection of vacated office sites for security purposes.

ROAD MOVEMENT TABLES (See Annex B (DofA)).

3. a. Road movement tables will consist of two parts. One giving 'data' paragraphs reflecting general information or information common to two or more columns (or elements of columns). The other listing the columns (or elements of columns) together with all other necessary information, arranged in tabular form.

b. These afforded a convenient means of transmitting to subordinates their schedules and other essential detail pertaining to road movement. This is particularly so in cases where the inclusion of such detail in the body of the operation order would tend to complete it or make it unduly long.

c. They will frequently require a wider distribution than a normal operation order so that copies can be issued to movement control personnel, traffic posts, etc.

d. They will be given security classifications in accordance with their contents, which will not necessarily be the same as that of the operation order.

ROAD MOVEMENT GRAPHS (See Annex C (DofA)).

4. a. Road movement graphs are used by staffs in planning and, when applicable, in supervising and/or regulating complicated movements, and for providing a convenient means of recording actual moves of units over a period.
b. The unit of measure to be used, i.e., kilometers or miles, will depend on the requirements of the authorities concerned. However, the resulting orders and instructions should reflect only one unit of measure.

5. Extra Time Allowance.
   a. Within a column, moving under one identification serial number, an extra time allowance of one minute per 25 vehicles is always allotted above the calculated pass time.
   b. If in a column the number of vehicles is over 600, the extra time allowance will be two minutes per 25 vehicles.

GAPS
6. Between the columns having different serial numbers, no standard gaps are prescribed; these gaps are allotted by the staff ordering the movement.

IMPLEMENTATION
7. This STANAG will be considered to have been implemented when the necessary orders/instructions putting the procedures detailed in this Agreement into effect have been issued to the forces concerned.
ANNEX A TO THE DETAILS OF AGREEMENT OF
STANAG 2041
(Edition No. 2)
EXAMPLE OF AN OPERATIONAL ROAD MOVEMENT ORDER
(intended as a guide only)

(SEcurity CLASSIFICATION)
Copy No. 4
21st Inf. Div.
YREVA, BLOKSKY
011030Z Jan 65
OPS 27

Operation Order 14:
Map: BLOKSKY, 1/250,000 NOTKLOTS-DRAKCIR
Task Organization/Grouping: Annex A—
Task Organization/Grouping (NOT attached to this example).
Time Zone Z.
1. SITUATION
   a. Enemy Forces: BLOKSKY 42nd Infantry Division (reinforced) is delaying advance of V Corps.
   c. Attachments and Detachments: None.

2. MISSION
   21st Infantry Division to move from YREVA at 012030Z January into NAEJ.

3. EXECUTION
   a. 121 Brigade is to move RED route to DRAKCIR and WHITE route to vicinity of NAEJ.
   b. 221 Brigade is to move BLUE route to NOTKLOTS and GREEN route to vicinity of NAEJ.
   c. 321 Brigade follows 121 Brigade.
   d. Division Artillery follows 221 Brigade.
   e. Division Troops follow 321 Brigade.
   f. Miscellaneous.
   g. Coordinating instructions.
      (1) Annex B—Movement Table.
      (2) First short halt 012150Z January 1965.
      (3) No weapon will be fired at aircraft unless attacked.

4. ADMINISTRATION AND LOGISTICS
   Administrative/Logistic Order 19 follows.

5. COMMAND AND SIGNAL
   a. Continue radio silence.
   b. Division Headquarters. Head of Division Troops during move.

ACKNOWLEDGE

AVERS
Major-General

Annex A—Task Organization/Grouping (NOT attached to this example)
Annex B—Movement Table
Distribution.
Authentication:

(SEcurity CLASSIFICATION) . . ./5.
Figure G-1. Annex B to the details of agreement of STANAG 2041.

(Located in back of manual)
EXAMPLE OF A ROAD MOVEMENT GRAPH
MODÈLE DE GRAPHIQUE DE MOUVEMENTS PAR VOIE ROUTIÈRE

Designation of route:..............
Designation de l'itinéraire:......

Period of time covered:............
Periode de temps considéré:......

(No. of column (or element of column))
(No de colonne (ou d'élément))

(head) (tête)
(tail) (queue)

(ordered halt) (halte sur ordre)
(tail) (queue)

Note:
When halts are ordered, they will be shown on the graph.

Note:
Lorsque des haltes sont exécutées sur ordre, elles sont indiquées sur le graphique.

Figure G-2. Annexe C(DofA) to STANAG 2041.
AGREEMENT

1. The NATO Armed Forces agree to adopt the following definitions in connection with the use of the road network and to evaluate the potential of this network in accordance with the characteristics indicated below.

DEFINITIONS

2. a. The Basic Military Road Network. This network includes all routes designated in peacetime by the host nations to meet the anticipated military movements and transport requirements, both allied and national.

   NOTE: See definition of “route” in STANAG 2015.

   b. The basic network should already, in peacetime, have sufficient capacity and be equipped with the necessary facilities.

   NOTE: (for information): There is a basic CENTRAL EUROPE military network formed from national networks.

3. a. A Military Road Manoeuvre Network. This network is the road system required by a commander for the conduct of a specific operation and for the required logistical support for that operation.

   b. It is built up from the corresponding basic military road network the routes of which form the framework of the military manoeuvre nets, taking into consideration such additions or alternatives as may be required by circumstances and the needs of the Command. This network is defined and controlled (allotment of movement credits) by the military authorities national or allied, according to the break down of responsibilities in the theatre of operations (Communication Zone, Rear and Forward Combat Zone.)

GENERAL BUILD-UP OF MILITARY ROUTE NETWORKS

4. a. Axial Routes (“pénétrantes” or “axiales”). This term denotes the routes running through the rear area and into the forward area. They are identified by odd numbers and shown on overlays by unbroken lines.

   b. Lateral Routes (latérales” or “rocades”). This term denotes the routes, the general direction of which is roughly parallel to the frontline, which feed into or cross axial routes. They are identified by even numbers and shown on overlays by broken lines.
STANDARD OF ROUTES IN A MILITARY NETWORK

5. a. A Controlled Route ("itinéraire réglementé") denotes a route the use of which is subject to traffic or movement restrictions. ("Movement Credit" mentioned below is defined in STANAG 2154.) Controlled routes can be divided into:

   (1) A Supervised Route ("itinéraire surveillé") is a roadway over which control is exercised by a traffic control authority by means of traffic control posts, traffic patrols or both. A "Movement Credit" is required for its use by a column of 20 or more vehicles or by any vehicle of exceptional size or weight.

   (2) A Despatch Route (UK: "regulated route"; FR: "itinéraire gardé") is a roadway over which full control, both as to priorities of use and the regulation of movement of traffic in time and space is exercised. A "Movement Credit" is required for its use by any independent vehicle or group of vehicles regardless of number or type.

   (3) A Reserved Route ("itinéraire réservé ou spécialisé") is a route the use of which is:

      (a) Allocated exclusively to a particular authority or formation ("itinéraire réservé") e.g., route reserved for the 10 Division, or

      (b) Intended to meet a particular requirement ("itinéraire spécialisé") e.g., route reserved for evacuation.

b. An Open Route ("itinéraire libre") is a route for the use of which no "Movement Credit" is required.

c. A Blocked Route ("itinéraire bloqué") is a route on which the flow of traffic has become temporarily impassable owing to a material obstruction.

SPECIAL RESTRICTIONS AND/OR INDICATIONS

6. a. One Way Route ("itinéraire ou route a sens unique") is a road on which vehicles may move in one direction only at a particular time.

b. Prohibited Route ("itinéraire interdit") or Prohibited Section of Route is a route or section of route over which all traffic is prohibited.

c. A Signed Route ("itinéraire fléché") is a route along which a unit has placed, on its own initiative, for its exclusive use, and under the conditions prescribed by the Command or the manoeuvre regulations, directional signs which include the identification symbol of the unit concerned.

d. Route Where Guides Are Provided ("itinéraire jalonné"). This term denotes a route on which a unit has placed, under its own initiative and for its exclusive use and under the conditions prescribed by the Command or the manoeuvre regulations, guides responsible for showing the vehicles of that unit the direction they are to follow. These guides direct the personnel and vehicles of their own formation but do not give any indication to personnel and vehicles of other units, who must respect the common signing and regulations.

TRAFFIC FLOW AND ROAD CAPACITY

7. a. Traffic Flow ("débit d'un itinéraire"). The traffic flow at a given point is defined by the number of vehicles passing that point at a given time. Traffic flow is expressed as vehicles per hour (VPH).

b. Critical Point ("point critique"). The critical point on a route is that point where the traffic flow is at its minimum capacity.
c. Capacity in Vehicles or Tons (“capacités routières en véhicules ou en tonnes”). The road traffic which may use a road is variable. The capacity either for the flow of vehicles or for the tonnages carried are important data for transportation planning. These maxima are defined below:

(1) The Road Capacity in Vehicles (“capacité en véhicules ou le débit maximum”) is the maximum number of vehicles that can pass over any particular road or route in one direction (one way traffic), within a given time. When the road is to be used in both directions (2-way traffic) this should be noted, and the capacity might be correspondingly reduced. It is generally expressed in vehicles per hour (VPH). For a given section of route, the road capacity in vehicles cannot exceed the maximum traffic flow at its most critical point.

(2) The Road Capacity in Tons is the maximum number of tons which can be moved over any particular road or route in one direction, (one way traffic), within a given time. When the road is to be used in both directions (two way traffic) this should be noted, and the capacity might be correspondingly reduced. It is generally expressed in tons per hour and is the product of VPH and the average payload of the vehicles using the route (e.g., 200 VPH \times 3T = 600 tons per hour).

d. Complementary Remarks. Estimate of traffic flows and/or tonnage capacity should take into account the existing conditions. They may include:

(1) Road characteristics (terrain, type of roadway, number of lanes available, road maintenance, rated tonnage capacity of the weakest bridge).

(2) Military traffic regulations (density, speed limits, direction of traffic).

(3) Types of vehicles employed.

(4) Movement conditions (by day, by night, lighting and/or weather conditions).

CHARACTERISTICS

8. The characteristics of a route are in particular:

a. The width of the traveled way (UK: “carriage way”).

b. The clearance of obstacles (e.g., tunnels, bridges, etc.).

c. The class of loads which can be accepted in accordance with STANAG 2021.

WIDTHS

9. a. The various widths of a road are illustrated in the drawing below:
b. The number of lanes is determined by the width of the travelled way, i.e., the subdivision of the travelled way to allow the movement of a single line of vehicles. Taking into account the width of a normal vehicle and the space required on either side of that vehicle, the width of the lane required for the movement of one column is normally estimated at 11 1/2 feet (3.50 m) and 13 feet (4 m), for a tracked combat vehicle. A single lane road can only be used in one direction at any one time.

c. A route or road can be classified as single or double flow according to the number of lanes.

(1) A route or road is single flow ("simple courant") when it allows a column of vehicles to proceed and, in addition, isolated vehicles to overtake or to pass in the opposite direction, at predetermined points. It is desirable that the width of a single flow road be equal to at least 1 1/2 lanes.

(2) A route or road is double flow ("double courant") when it allows two columns of vehicles to proceed simultaneously. It is essential that the width of a double flow road be equal at least to 2 lanes.
d. In the light of the above definition, the traffic possibilities can be shown in the following table:

<table>
<thead>
<tr>
<th>FLOW POSSIBILITIES</th>
<th>ROAD WIDTHS FOR NORMAL VEHICLES ONLY</th>
<th>ROAD WIDTHS FOR TRACKED COMBAT VEHICLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isolated vehicles of appropriate width only and in one direction only</td>
<td>At least 11½ ft., (3.50 m)</td>
<td>At least 13 ft., (4 m)</td>
</tr>
<tr>
<td>Generally one way only; no overtaking or passing in opposite direction</td>
<td>Between 11½ ft., and 18 ft. (3.50 m and 5.50 m)</td>
<td>Between 13 ft., and 19½ ft., (4 m and 6 m)</td>
</tr>
<tr>
<td>Single flow</td>
<td>Between 18 ft., and 23 ft. (5.50 m and 7 m)</td>
<td>Between 19½ ft., and 26 ft., (6 m and 8 m)</td>
</tr>
<tr>
<td>Double flow</td>
<td>Over 23 ft. (7 m)</td>
<td>Over 26 ft. (8 m)</td>
</tr>
</tbody>
</table>

e. The width of the route, for any given section is that of the narrowest part of its travelled way (UK: "carriage way"). It is expressed in metres or feet.

OVERHEAD CLEARANCE

10. Overhead clearance ("hauteur limite") is the least distance between the surface of the travelled way and any obstruction vertically above it. It is an obstruction to the use of a route for all vehicles which exceed in height the overhead clearance of the route.

CLASS

11. a. Route. The class of a route is fixed in relation to the heaviest gross weight vehicle the route will accept. In such a case the choice of the route is limited (see STANAG 2021).

b. Network. The class of a network is fixed in relation to the minimum route classification in that network.

12. To facilitate movement those routes included in a low class network but over which heavier equipment can be moved are re-grouped in broad categories:

- Average traffic routes : Class 50
- Heavy traffic routes : Class 80
- Very heavy traffic routes : Class 120

13. Whenever possible, the basic military road network is composed of average routes (Class 50) and includes a certain number of heavy traffic routes (Class 80) and a few very heavy traffic routes (Class 120).

POTENTIAL

14. For planning purposes it would be useful that the potential of a route should be expressed on diagrams, tables and maps (by road sections) by:

a. Road capacity (in vehicles per hour—one way traffic or two way traffic—see para 7c. (1)).

b. Number of lanes (normal vehicles, see para 9b.).

c. Load class (tracked vehicle, one-way—see para 11a.).

(Example: 900/2/80/780 means a route with a one way traffic capacity of 900 VPH, 2 lanes, Class 80, or a two way traffic capacity of 780 VPH.)

IMPLEMENTATION OF THE AGREEMENT

15. This STANAG will be considered to have been implemented when the necessary orders/instructions to use the information contained in this Agreement have been issued to the forces concerned.
APPENDIX I

STANAG 2154
DEFINITIONS AND REGULATIONS FOR MILITARY MOTOR MOVEMENTS BY ROAD

STANAG 2154
(Edition No. 2)

DETAILS OF AGREEMENT (DoA)
DEFINITIONS AND REGULATIONS FOR MILITARY MOTOR MOVEMENTS BY ROAD

Annex A (DoA). Direction Arrow.

AGREEMENT
1. It is agreed that the NATO Armed Forces are to use the definitions and regulations applying to military motor movement by road, defined in the following paragraphs.

ORGANIZATION OF COLUMNS
2. A column of vehicles is a group of at least ten vehicles moving under a single commander, over the same route, in the same direction.
3. A large column may be composed of a number of organized elements (subunits, march units, sections of vehicles, etc.).
4. Each column and each organized element of the column must include:
   a. A commander whose place may vary.
   b. In the first vehicle: a subordinate commander known as the 'pace setter' (in French: guide).
   c. In the last vehicle: a subordinate commander known as the 'trail officer' (in French: serre-file).
5. The pace setter of the first element of a column leads it and regulates its speed. The trail officer of the last element deals with such problems as occur at the tail of the column.
6. In addition, each vehicle is to have a 'vehicle commander' (who may be the driver).

IDENTIFICATION OF COLUMNS—MOVEMENT CREDIT
7. Each column is to be identified by a number and by flags.
8. Each column is to be identified by a number known as 'movement number' or 'identification serial number' which is allocated at the same time as the 'movement credit' (Annex B (DoA) to STANAG 2155) by the authority organizing the movement (see paragraph 12 below). This number identifies the column during the whole of the movement.
9. The movement number is to be placed on both sides and, if possible, on the front of at least the leading vehicle and the last vehicle of each organized element of the column. It is to be composed of:
a. Two figures indicating the day of the month on which the movement is due to commence.

b. Three or more letters indicating the authority organizing the movement, the first two letters being the national symbols indicated in STANAG 1059.

c. The figures indicating the serial number allocated by the authority responsible for the movement.

(Example: identification 08-BEA-08 will indicate that Column No. 8 will be moved by the Belgian authority (A) on the 3rd day of the current month.)

d. The elements of a column may be identified by adding a letter behind the movement number.

10. Additionally, each column is to be identified by flags or, for night movement, by lights, security permitting, as described below:

a. The leading vehicle of the 'column' is to carry a blue flag (and a blue light at night).

b. The last vehicle of the 'column' is to carry a green flag (and a green light at night).

c. The vehicle of the column commander is to display a white and black flag as indicated below:

![Figure 1-1. Vehicle flag for column commander.](image)

d. A vehicle that cannot maintain its position in a column may indicate this condition by displaying a yellow flag.

e. Flags should be approximately 12" (30 cm) x 18" (45 cm) in size.

f. Flags are to be mounted on the left side of vehicles except where vehicles drive on the left, in which case the flags are to be mounted on the right side of the vehicles.

11. Headlights. In peacetime, all vehicles driving in a routine march column are to use their dipped headlights, even in daylight.

12. Movement Credit—Time Allocation. (in French: Crédit de mouvement.)

a. A movement credit is the allocation granted to one or more vehicles in order to move over a controlled route in a fixed time according to movement instructions (see STANAG 2151, paragraph 5 of the Details of Agreement).

b. Besides the allocation of a 'movement number' or 'identification serial number' (see paragraph 8 above), a movement credit includes the indication of times at which the first and the last vehicle of the column are scheduled to pass:
(1) The entry point, that is to say the point where the column enters the controlled route.
(2) The exit point, that is to say the point where the column leaves the controlled route.
(3) At critical points, and, if necessary at traffic control posts.

TIME AND DISTANCE FACTORS IN MOTOR COLUMNS

13. Vehicle Distance. ‘Vehicle distance’ (in French: distance) is the space between two consecutive vehicles of an organized element of a column.

14. Column Gap. ‘Column gap’ (in French: créneau) is the space between two organized elements following each other on the same route. It can be calculated in units of length or in units of time as measured from the rear of one element to the front of the following element.

15. Traffic Density. ‘Traffic density’ (in French: densité de la circulation) is the average number of vehicles that occupy one mile or one kilometre of road space, expressed in vehicles per mile (VPM) or per kilometre (VPK).

16. Length of a Column. ‘Length of column’ (in French: longeur d'embarrasment) is the length of roadway occupied by a column in movement including the gaps inside the column from the front of the leading vehicle to the rear of the last vehicle.

17. Pass Time. ‘Pass time’ (in French: durée d'écoulement) of a column is the actual time between the moment when the first vehicle passes a given point and the moment when the last vehicle passes the same point.

18. Road Clearance Time. ‘Road clearance time’ (in French: durée d'embrasement) is the total time a column requires to travel over and clear a section of road.

FORMATION AND DISPERAL OF COLUMNS

19. Start Point. ‘Start point’ (in French: point initial) is a well defined point on a route at which a movement of vehicles begins to be under the control of the Commander of this movement. It is at this point that the column is formed by the successive passing, at an appointed time, of each of the elements composing the column. In addition to the principal start point of a column there may be secondary start points for its different elements.

20. Release Point. ‘Release point’ (in French: point de dislocation) is a well defined point on a route at which the elements composing a column return under the authority of their respective commanders, each one of these elements continuing its movement towards its own appropriate destination. In addition to the principal release point of a column, there may be several secondary release points for the various elements.

SPEED AND FLOW OF COLUMNS

21. Average Speed. ‘Average speed’ (in French: vitesse de croisière) is the number of miles or kilometres traveled in an hour excluding all ordered halts. It is expressed in miles or kilometres per hour.

22. Speed. ‘Speed’ (in French: vitesse instantanée) indicates the actual rate of speed of a vehicle at a given moment, as shown on the speedometer (in kilometers/hour or miles/hour).

23. Pace. ‘Pace’ (in French: vitesse de marche) is the regulated speed of a column or element as set by the pace setter in order to maintain the average speed prescribed.
24. Rate of March. 'Rate of march' (in French: vitesse moyenne) is the average number of miles or kilometres to be travelled in a given period of time including all ordered halts. It is expressed in miles or kilometres in the hour. The rate of march is a general planning factor used by the staffs.

ROUTE SIGNING AND ROAD GUIDES
25. STANAG 2151 gives the definition of a 'signed route' and of a 'route where guides are provided'.

26. Signing and guide teams are normally provided by the moving unit (see paragraph 29 below). Members of these teams must not, under any circumstances, wear the armbands and cuffs specified in STANAGs 2025 and 2159. They may wear coloured armbands.

27. Direction arrows used should preferably be black on white background and bear the identification symbol of the unit in question (distinctive sign or identification number). They may be of a similar type to those shown in Annex A (DoF). Before crossroads leading to several directions, a warning arrow can be used (type similar to that shown in Annex C to the Details of Agreement of STANAG 2012).

MILITARY ROUTE SIGNING
28. Unit route signs and unit guides are to be put out a short time in advance of the column and picked up as soon as possible after the tail or the column has passed.

29. Route signing and the placing of guides on controlled routes must be under the responsibility of the authority in charge of movements or traffic in the area concerned.

30. Outside these itineraries, the tasks above are to be the responsibility of the column commander.

SPECIAL REGULATIONS FOR THE EXECUTION OF MOVEMENTS
31. All personnel exercising a command in the column and all drivers must strictly obey the instructions of traffic control and regulating personnel.

32. When approaching a traffic control or a regulating post indicated by prescribed signs (STANAGs 2025 and 2012) the column commander or his representative must advance ahead of his column and report to the regulating post commander to:
   a. Give the required information concerning his organized elements and their movements.
   b. Receive information and possibly instructions.

33. Through this post, he can also arrange for the transmission of his own instructions, or information, to the various elements of his column as they pass the post, where however they must not stop unless ordered to do so.

HALTS
34. Short Halts.
   a. Short halts made by columns or elements of columns on the controlled routes normally are to last 10 minutes and take place in principle, every 2 hours, 10 minutes before the full hour, even or odd (this detail to be specified in orders). All columns following the same route are to stop at the same time.
   b. However, the characteristics of the road may make it necessary for the halt to take place in one particular part of the route rather than
simultaneously at a fixed time. In such cases, the necessary instructions are to be given in the orders relating to the movement.

35. Long Halts. No standard rules for the observance of long halts are laid down. They must always be specifically plotted on movement graphs in order to avoid possible conflict.

36. Particular attention is to be paid to the following aspects of traffic discipline:

a. When making a long halt, isolated vehicles or vehicles forming part of a column, should move off the roads, as much as possible.

b. If this practice cannot be observed, the commander of a column which is halted on an itinerary must take all necessary measures to facilitate circulation for other road users and avoid accidents or traffic jams. The measures to be taken will vary according to the road conditions and width of the route:
   (1) Warning, at a sufficient distance from the front and rear of the column (guards, warning flags, lights or flares, security permitting).
   (2) If required, organize (direct) a system of one-way traffic alternately along the columns etc.

c. When a halted column resumes movement it has the right of way while moving back on to the road, unless otherwise prescribed.

OVERTAKING OF COLUMNS

37. By Isolated Vehicles.

a. An isolated vehicle is only authorized to overtake a moving column when:
   (1) Its maximum authorized speed is appreciably higher than the speed at which the column is moving, thus enabling it to overtake each vehicle rapidly.
   (2) There is sufficient distance between the vehicles of the column to allow the overtaking vehicle to regain its position in the proper lane after overtaking each vehicle.
   (3) The trail officer of the column gives a clear signal that overtaking is possible.

b. In all other cases, an isolated vehicle is to overtake the column only when the latter is halted.

38. By Other Columns.

a. On a controlled route a column may only overtake another column on the orders of the movements authorities and as arranged by the traffic regulating personnel.

b. On an open route no column may overtake another moving column, except in special cases, e.g., on a one-way road wide enough. In these cases, the commander of the column desiring to pass is to contact the commander of the column to be passed prior to effecting passage.

c. Outside these special cases, the overtaking of a column by another column is only authorized if the former is halted and providing the moving column has the time to overtake the whole of the halted column before the latter is ready to move on. In this case, the commander of the column desiring to pass is to contact the commander of the column to be passed prior to effecting passage. The commander of the halted column after giving his agreement must facilitate the overtaking.
MOVING BY NIGHT (Reference: STANAG 2024)

39. By night, road movements are carried out according to traffic regulations as follows:

a. With normal lighting
b. Reduced lighting
c. Blackout lighting
d. Without lights
e. possibly with 'balisage' (1)

From a certain line or on certain routes specified by orders.

40. When columns are moving under blackout conditions, traffic normally will be one-way.

IMPLEMENTATION OF THE AGREEMENT

41. This STANAG will be considered to have been implemented when the necessary orders/instructions to use the definitions and regulations contained in this Agreement have been issued to the forces concerned.

NOTE (1) 'Balisage' is a method by which a route is outlined by a system of dim beacon lights enabling vehicles to be driven at near daytime speed under blackout conditions.
ANNEX A (DoA) TO STANAG 2154
(Edition No. 2)

ANNEXE A (MdEA) AU STANAG 2154
(Edition No. 2)

DIRECTION ARROW

(made of paper, synthetic matter or wood)

FLECHE DE DIRECTION

(réalisée en papier, en matière synthétique ou en bois)

---

Figure I-2. Annex A to STANAG 2154.
APPENDIX J

STANAG 2155

ROAD MOVEMENTS AND TRANSPORT DOCUMENTS

Agreed English/French Texts

STANAG 2155

DETAILS OF AGREEMENT (DofA)

ROAD MOVEMENTS AND TRANSPORT DOCUMENTS

Annexes: A (DofA). Road Movement Order.
B (DofA). Road Movement Bid and Movement Credit Granted Forms.

AGREEMENT

1. In order to facilitate the movement and transport arrangements in particular for crossing frontiers by road between the various NATO Nations, it is agreed that the NATO Armed Forces are to use the forms indicated in paragraph 2 below.

FORMS

2. The forms to be used are to be the proformae shown at the following Annexes:
   Annex A (DofA)—Road Movement Order.
   Annex B (DofA)—Road Movement Bid and Movement Credit Granted Forms.

PRINTING

3. The printing of these forms is to be made in at least one of the two official NATO languages (English and French) and in addition, in the languages of the country of origin if other than English or French.

MISCELLANEOUS INFORMATION

4. When travelling from one NATO country to another, Annex A (DofA) is not a substitute for the NATO Travel Order (STANAG 2026) in so far as personnel carried in the vehicles are concerned.

5. The terminology used in this STANAG is defined in STANAGs 2151 and 2154.

IMPLEMENTATION OF THE AGREEMENT

6. This STANAG will be considered to have been implemented when the necessary orders/instructions bringing into use the documents mentioned in the Agreement have been issued to the forces concerned.
**ROAD MOVEMENT ORDER / ORDRE DE MOUVEMENT PAR ROUTE**

**Annex A to the Details of Agreement of STANAG 2155 / Annexe A aux modalités de l'accord du STANAG 2155**

**Identification Serial No. of Movement / Numéro de série d'identification du mouvement**

**No** (2)

<table>
<thead>
<tr>
<th></th>
<th><strong>A</strong> Bearer of this document / Porteur de ce document</th>
<th><strong>B</strong> Name / Nom</th>
<th><strong>Rank / Grade</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Unit / Unité</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>C</strong> Mission (4)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>D</strong> Details of vehicles / Détails sur les véhicules</td>
<td><strong>Name / Nombre</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>E</strong> Movement instruction / Conditions de mouvement</td>
<td><strong>Outward journey / Aller</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>1 Place of departure / Lieu de départ</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>2 Date of departure / Date de départ</strong></td>
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<td></td>
<td></td>
<td><strong>3 Route / Itinéraire</strong> (9)</td>
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</tr>
<tr>
<td></td>
<td></td>
<td><strong>4 Final destination / Destination finale</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>5 ETA Final destination /(6) ETA Destination finale</strong></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td><strong>6 Other movement data / Divers</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>7 Weapon(s) authorized / Armement autorisé</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>F</strong> National and Allied military civilian authorities are requested to provide every assistance to the bearer of this Road Movement Order in the accomplishment of his mission / Les autorités nationales et alliées, militaires et civiles sont priées de porter assistance au porteur du présent Ordre de Mouvement dans l'accomplissement de sa mission</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>At / A</th>
<th><strong>Name / Nom</strong></th>
<th><strong>Signature</strong> (7)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>At / A</th>
<th><strong>Name / Nom</strong></th>
<th><strong>Signature</strong> (8)</th>
</tr>
</thead>
</table>

**AGO 2008EA**
<table>
<thead>
<tr>
<th>1. Personnel transported / Personnel transporté</th>
<th>Expected number / Effectif prévu</th>
<th>Actual number / Effectif enlevé</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Material or cargo transported / Matériel transporté</td>
<td>Expected tonnage or volume / Tonnage ou volume prévu</td>
<td>Actual tonnage or volume / Tonnage ou volume enlevé</td>
</tr>
<tr>
<td>3. Number of vehicles / Nombre de véhicules</td>
<td>Planned / Prévu</td>
<td>Used / Utilisé</td>
</tr>
<tr>
<td>4. Mileage / Kilométrage par couru</td>
<td>Empty / Vide</td>
<td>Loaded / Encharge</td>
</tr>
<tr>
<td>5. Petrol used / Essence consommée</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Resupplies received from foreign authorities / Ravitaillements effectués auprès des autorités étrangères</td>
<td>Petrol / Essence</td>
<td>Rations / Vivres</td>
</tr>
<tr>
<td>7. Duration of mission / Durée de la mission</td>
<td>Departure from vehicle park on / Depart du lieu de stationnement le ___ at ___ (hours)</td>
<td>Return to vehicle park on / Retour au lieu de stationnement le ___ at ___ (hours)</td>
</tr>
<tr>
<td>8. Unavailable vehicles / Véhicules indisponibles</td>
<td>For 24 hours / Pour 24 heures</td>
<td>For 48 hours / Pour 48 heures</td>
</tr>
<tr>
<td>9. Incidents / Incidents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Change(s) made to the initial order during the mission / Modification(s) apportée(s) à l'ordre initial au cours de la mission</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Rank / Grade) (Name / Nom) (Signature of holder / Signature du Titulaire) At / A on / le
NOTES

(1) Unit of service stamp of issuing authority/Timbre de l'unité ou du service ayant délivré l'ordre.

(2) Serial number of Road Movement Order/Numéro d'Ordre de l'Ordre de mouvement.

(3) The Road Movement Order is prepared in triplicate; copies to be numbered 1, 2 and 3. Copies 1 and 2 are handed to the bearer of the Road Movement Order; Copy No. 3 remains at the issuing authority. On completion of the mission, Copy No. 2 is returned to the issuing authority as an end of mission report/ L'Ordre de Mouvement est établi en 3 exemplaires numérotés 1, 2 et 3. Les exemplaires 1 et 2 sont remis au titulaire de l'Ordre de Mouvement; l'exemplaire 3 reste chez l'autorité, que a délivré l'Ordre de Mouvement. L'exemplaire No. 2 est renvoyé à l'autorité que a délivré l'Ordre de Mouvement, dûment complété au verso, pour rendre compte de la fin de mission.

(4) State the mission (the nature, the tonnage and/or volume of the load to be carried as far as security regulations allow)/Donner la mission (la nature, le tonnage et/ou le volume du chargement dans la mesure où les règles de sécurité le permettent).

(5) If the return instructions cannot be indicated by the issuing authority, this should be done by the appropriate authority at the place of destination/Si les instructions du retour ne peuvent pas être précisées par l'autorité que a délivré l'Ordre de Mouvement, ces instructions sont à fixer par l'autorité compétente du lieu de destination.

(6) ETA—Estimated Time of Arrival/Heure d'Arrivée prévue.

(7) Name, rank and signature of issuing authority for the outward journey/ Nom, grade et signature de l'autorité ayant délivré l'Ordre de Mouvement pour le voyage aller.

(8) To be completed if the authority (7) was not able to do so (see (5))./A compléter si l'autorité (7) n'était pas compétente (voir (5)).

(9) Mention here the frontier meeting point/Mentionner le point de franchissement de la frontière.
ANNEX B TO THE DETAILS OF AGREEMENT OF STANAG 2155

ROAD MOVEMENT BID AND MOVEMENT CREDIT GRANTED FORMS
FROM: 6 INF DIV
TO: (Authority to whom the request is forwarded)
    EMRR 1

I. ROAD MOVEMENT BID
Reference No. S/1728 dated 10 February 1965

<table>
<thead>
<tr>
<th>Serial</th>
<th>Unit to be</th>
<th>Total number of</th>
<th>Max.</th>
<th>Earliest readiness for departure (date/time group)</th>
<th>Average speed</th>
<th>Route required with Start Point/Release Point and Date/Time Group</th>
<th>Rest area required for long halts</th>
<th>Density required (VPK or VPM)</th>
<th>Remarks or special requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unit to be moved and Movement No. (5)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>Wheeled</td>
<td>Tracked</td>
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<tr>
<td>A</td>
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<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
<td>G</td>
<td>H</td>
<td>J</td>
<td>K</td>
</tr>
<tr>
<td>1</td>
<td>702 Trans. Coy</td>
<td>105</td>
<td>—</td>
<td>Ea. 7 tons-MW-(1)</td>
<td>111930</td>
<td>30 KPH (4)</td>
<td>40 KPH (4)</td>
<td>HEVERLEE VOGELSANG</td>
<td>Route No. 15 LOUVAIN 111945 TIENEN LIEGE BILDCHEN(CP)(2) AACHEN Route No. 15 HASSELT 112115 BILDCHEN(CP)(2) VAALS/AACHEN KOELN</td>
</tr>
<tr>
<td>2</td>
<td>7 Arty. Regt</td>
<td>40</td>
<td>25</td>
<td>Ea. 20 tons-MW-(1) Eb. 3.8 m. Ec. 2.8 m.</td>
<td>112000</td>
<td>20 MPH (4)</td>
<td>30 MPH (4)</td>
<td>ZONHOVEN BENSBERG</td>
<td>DUEREN 25 VPM(3)</td>
</tr>
</tbody>
</table>

Legend: (1) Ea = Max Weight or Military Class (State clearly whether it refers to weight or military classification: MW or MC).
        Eb = Max Height; Ec = Max Width; Ed = Type of heaviest vehicles.
        (2) Frontier Crossing point (CP)
        (3) VPK = vehicle per Kilometer; VPM = vehicle per Mile
        (4) KPH = Kilometers per hour; MPH = Miles per hour
FROM: (Authority granting the Movement Credit)  
EMRR 1

FOR: 6 INF. DIV.

II. MOVEMENT CREDIT GRANTED

Your reference No.: X/1723 dated 10 February 1965  
Our reference No.: S/527 dated 10 February 1965

<table>
<thead>
<tr>
<th>Serial</th>
<th>Movement No. (3)</th>
<th>Average speed/density ordered Mile/h, VPM or Km/h, VPK(1)</th>
<th>Route ordered</th>
<th>Pass Time</th>
<th>Date/time group of head of column past point</th>
<th>Halts</th>
<th>Special Instruction</th>
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<tbody>
<tr>
<td>O P Q R S T U V X Z</td>
<td>All roads</td>
<td>Motorways</td>
<td></td>
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</tr>
<tr>
<td>1</td>
<td>11-BEA-25</td>
<td>30/20 Km (or miles)</td>
<td>—</td>
<td>Route No. 15</td>
<td>15 min.</td>
<td>112030</td>
<td>10 minutes before even hours</td>
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<td></td>
<td>LOUVAIN</td>
<td>2110</td>
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<td></td>
<td></td>
<td></td>
<td>TIENEN</td>
<td>2300</td>
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<td></td>
<td>LIEGE</td>
<td>120030</td>
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<td></td>
<td></td>
<td>BILDCHEN(CP)(2)</td>
<td>0110</td>
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<td></td>
<td></td>
<td></td>
<td>AACHEN</td>
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<td></td>
<td>Route No. 15</td>
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<td>BILDCHEN(CP)(2)</td>
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<td>AACHEN</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>KOELN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>ZZ-BEA-26</td>
<td>—</td>
<td>30/20 Km (or miles)</td>
<td>Route No. 15</td>
<td>10 min.</td>
<td>112100</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>HASSELT</td>
<td>2220</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ROCOUR</td>
<td>2330</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BILDCHEN(CP)(2)</td>
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<td>AACHEN</td>
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<td></td>
<td></td>
<td>KOELN</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend: (1) VPM = vehicle per mile; VPK = vehicle per kilometer.  
(2) CP = Frontier crossing point  
(3) No. granted by originating national authority.
APPENDIX K

STANAG 2156

TRANSPORT REQUEST AND REPLY TO TRANSPORT REQUEST

Agreed English/French Texts

DETAILS OF AGREEMENT

TRANSPORT REQUEST AND REPLY TO TRANSPORT REQUEST


II. Annex ‘B’—REPLY TO TRANSPORT REQUEST and Appendices 1 and 2.

INTRODUCTION

1. When a unit or formation has to effect a movement for which:
   a. it does not possess appropriate means of transport,
   b. it has inadequate means of transport,
   c. it cannot use its own means of transport,

   such a unit or formation must prepare a TRANSPORT REQUEST and submit it to the headquarters concerned (Movements and Transport Staff) in accordance with national instructions and international agreements in force.

2. The TRANSPORT REQUEST will be prepaid either:
   a. by the unit or formation requiring transport,
   b. or, in urgent cases, by the military commander ordering the movement or transport.

3. The headquarters concerned (Movements and Transport Staff) which receives the TRANSPORT REQUEST should find in it ALL the information necessary to enable it to determine quite independently:
   a. the most suitable means of transport, in relation to the requirements and the actual transport available;
   b. the action necessary to organize the transport or the movement.

4. The headquarters concerned (Movements and Transport Staff, when it has considered the Transport Request, will send the unit or formation a reply in the form of a REPLY TO TRANSPORT REQUEST. The Reply to a Transport Request:
   a. is used for the purpose of giving the requesting unit or formation a reply as soon as possible so that it may make the preparations for the movement or transport in question;
   b. may be circulated as an integral part of (or as an annex or supplement to) the Movement Order issued by the authorities responsible;
   c. does not preclude the submitting of a “Movement Credit” request on the routes where it is required (in accordance with STANAG 2151).
AGREEMENT

5. In order to standardize the information to be incorporated in the TRANSPORT REQUEST and reply to transport request, the NATO Armed Forces agree to comply with instructions in paragraphs 7 and 8 below when preparing such forms. It is further agreed:—
   a. that these documents must be capable of transmission, in code form, by message or telephone;
   b. that it is not necessary to standardize the layout and format of the forms used for TRANSPORT REQUEST and REPLY TO TRANSPORT REQUEST.

6. If the TRANSPORT REQUEST is for a troop or supply movement by Air and is approved by the proper authority, the Movements Staff concerned will transcribe the requirement onto a form NATO Request for Air Transport (NARAT) in accordance with STANAG 3093.

THE TRANSPORT REQUEST

7. The TRANSPORT REQUEST will give the information called for in the example shown at ANNEX ‘A.’
   a. The FIRST Part must be completed in full.
   b. The SECOND, THIRD, FOURTH and FIFTH Parts will be filled in as necessary. Unused spaces will not be taken up subsequently. It is therefore UNnecessary to give nil returns.
   c. Examples:—
      (1) for the movement of an Infantry Battalion see Appendix 1 to ANNEX ‘A’;
      (2) for the transport of a general cargo see Appendix 2 to ANNEX ‘A’.

THE REPLY TO TRANSPORT REQUEST

8. The REPLY TO TRANSPORT REQUEST will provide the information listed in the example at ANNEX ‘B’.
   a. The FIRST Part must be completed in full.
   b. The other parts will be filled in as necessary. Unused spaces will not be taken up subsequently. It is therefore UNnecessary to give nil returns.
   c. Examples are given at Appendices 1 and 2 to ANNEX ‘B’.
# TRANSPORT REQUEST

<table>
<thead>
<tr>
<th>CODE</th>
<th>MEANING</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>(b)</td>
<td>(c)</td>
</tr>
<tr>
<td>ONE</td>
<td>Very brief description of operation</td>
<td>If known</td>
</tr>
<tr>
<td>TWO</td>
<td>Priority category</td>
<td>Add:</td>
</tr>
<tr>
<td>THREE</td>
<td>Headquarters concerned (Movements and Transport Staff), unit or service submitting Transport Request</td>
<td>a. rank, name, and appointment of officer singing transport request.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOUR</td>
<td>Security Classification, Reference No. and “Date-time” group given to Transport Request by requesting authority mentioned in FIRST PART THREE</td>
<td></td>
</tr>
<tr>
<td>FIVE</td>
<td>Departure point of transport</td>
<td>Exact position and coordinates</td>
</tr>
<tr>
<td>SIX</td>
<td>“Date-time” group of possible start of embarkation or loading operation.</td>
<td>Indicate Time Zone</td>
</tr>
<tr>
<td>SEVEN</td>
<td>Destination of transport</td>
<td>Exact position and coordinates</td>
</tr>
<tr>
<td>EIGHT</td>
<td>“Date-time” group by which it is desirable that the transport should reach its destination</td>
<td>Indicate Time Zone</td>
</tr>
<tr>
<td>NINE</td>
<td>Means of transport desired</td>
<td></td>
</tr>
<tr>
<td>TEN</td>
<td>Has the agency requesting transport a metal field loading rampé</td>
<td></td>
</tr>
<tr>
<td>ELEVEN</td>
<td>Any further information considered to be of use.</td>
<td></td>
</tr>
</tbody>
</table>

## SECOND PART

<table>
<thead>
<tr>
<th>CODE</th>
<th>MEANING</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>(b)</td>
<td>(c)</td>
</tr>
<tr>
<td>ONE</td>
<td>Male personnel to be transported:— A/B/C</td>
<td>A = number of officers</td>
</tr>
<tr>
<td>BRAVO</td>
<td>Female personnel to be transported:— A/B/C</td>
<td>B = number of Sergeants (or equivalent ranks) and above</td>
</tr>
<tr>
<td></td>
<td>Personal baggage, dress, personal weapons, etc.</td>
<td>C = number of Corporals (or equivalent ranks) and below</td>
</tr>
<tr>
<td>TWO</td>
<td></td>
<td>A, B and C as for SECOND PART ONE ALPHA</td>
</tr>
<tr>
<td>THREE</td>
<td>Officer commanding personnel during movement</td>
<td>Brief description</td>
</tr>
<tr>
<td>FOUR</td>
<td>Animals: A/B etc.</td>
<td></td>
</tr>
<tr>
<td>BRAVO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CODE</td>
<td>MEANING</td>
<td>REMARKS</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>(a)</td>
<td>(b)</td>
<td>(c)</td>
</tr>
<tr>
<td>THIRD PART</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONE</td>
<td>TANKS AND TRACKED VEHICLES</td>
<td>A = official description</td>
</tr>
<tr>
<td></td>
<td>Re first category of vehicles</td>
<td>B = number to be moved</td>
</tr>
<tr>
<td></td>
<td>A/B/C/D</td>
<td>C = weight in tons</td>
</tr>
<tr>
<td></td>
<td>BRAVO</td>
<td>D = military class</td>
</tr>
<tr>
<td></td>
<td>E = a \times b \times c centimetres or inches</td>
<td>a = overall length</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b = overall width</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c = overall height</td>
</tr>
<tr>
<td></td>
<td>Re second category of vehicles</td>
<td>(cm for centimetres, in for inches)</td>
</tr>
<tr>
<td></td>
<td>CHARLIE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DELTA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECHO</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FOXTROT</td>
<td></td>
</tr>
<tr>
<td>TWO</td>
<td>ARTILLERY</td>
<td>A = official description</td>
</tr>
<tr>
<td></td>
<td>Re first category</td>
<td>B = number to be moved</td>
</tr>
<tr>
<td></td>
<td>A/B/C</td>
<td>C = weight in tons</td>
</tr>
<tr>
<td></td>
<td>BRAVO</td>
<td>D = a \times b \times c centimetres or inches</td>
</tr>
<tr>
<td></td>
<td></td>
<td>a = overall length</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b = overall width</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c = overall height</td>
</tr>
<tr>
<td></td>
<td>Re second category</td>
<td>Insert the word ‘BLANK’ where any detail is not known</td>
</tr>
<tr>
<td></td>
<td>CHARLIE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DELTA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECHO</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FOXTROT</td>
<td></td>
</tr>
<tr>
<td>THREE</td>
<td>WHEELED MOTOR VEHICLES</td>
<td>As for tanks (THIRD PART ONE above)</td>
</tr>
<tr>
<td></td>
<td>Re first category of vehicles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A/B/C/D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BRAVO</td>
<td>E = a \times b \times c centimetres or inches</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHARLIE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DELTA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECHO</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FOXTROT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ZULU</td>
<td></td>
</tr>
<tr>
<td>CODE</td>
<td>MEANING</td>
<td>REMARKS</td>
</tr>
<tr>
<td>------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>(a)</td>
<td>(b)</td>
<td>(c)</td>
</tr>
<tr>
<td><strong>THIRD PART</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOUR</td>
<td>TRAILERS</td>
<td>As for tanks (THIRD PART ONE above)</td>
</tr>
<tr>
<td>ALPHA</td>
<td>Re first category of trailers</td>
<td></td>
</tr>
<tr>
<td>BRAVO</td>
<td>A/B/C/D</td>
<td></td>
</tr>
<tr>
<td>CHARLIE</td>
<td>Re second category of trailers</td>
<td>As above</td>
</tr>
<tr>
<td>DELTA</td>
<td>A/B/C/D</td>
<td></td>
</tr>
<tr>
<td>YANKEE</td>
<td>Type of tractor necessary for trailers with no tractor vehicle</td>
<td>Allow the authority to which the request is submitted to settle this problem, if a road movement is prescribed</td>
</tr>
<tr>
<td><strong>FIVE</strong></td>
<td>TROOPS, MISCELLANEOUS EQUIPMENT, SUPPLIES, ETC. (WHICH CANNOT BE LOADED IN THE UNIT'S OWN TRANSPORT)</td>
<td></td>
</tr>
<tr>
<td>ALPHA</td>
<td>Personnel: A/B/C</td>
<td></td>
</tr>
<tr>
<td>BRAVO</td>
<td>A/B for first category of cargo</td>
<td></td>
</tr>
<tr>
<td>CHARLIE</td>
<td>A/B for second category of cargo</td>
<td>As above</td>
</tr>
<tr>
<td><strong>FOURTH PART</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONE</td>
<td>GENERAL CARGO—FIRST TYPE</td>
<td></td>
</tr>
<tr>
<td>ALPHA</td>
<td>Brief description</td>
<td></td>
</tr>
<tr>
<td>BRAVO</td>
<td>Weight</td>
<td>in tons.</td>
</tr>
<tr>
<td>CHARLIE</td>
<td>Average dimensions of items:— a × b × c centimetres or inches</td>
<td></td>
</tr>
<tr>
<td>DELTA</td>
<td>Loading capability of sender: A</td>
<td>1) State cm for centimetres, in for inches.</td>
</tr>
<tr>
<td>ECHO</td>
<td>Unloading capability of receiving unit: A</td>
<td>2) a = length</td>
</tr>
<tr>
<td>FOXTROT</td>
<td>Special precautions desired</td>
<td>b = width</td>
</tr>
<tr>
<td>GOLF</td>
<td>Brief description of heavy or awkward lifts.</td>
<td>c = height</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A = tons per hour</td>
</tr>
<tr>
<td>TWO</td>
<td>GENERAL CARGO—SECOND TYPE</td>
<td></td>
</tr>
<tr>
<td>ALPHA</td>
<td>As for FOURTH PART ONE</td>
<td></td>
</tr>
<tr>
<td>BRAVO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHARLIE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DELTA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECHO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOXTROT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GOLF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CODE</td>
<td>MEANING</td>
<td>REMARKS</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>(a)</td>
<td></td>
<td>(b)</td>
</tr>
<tr>
<td>(c)</td>
<td></td>
<td>(d)</td>
</tr>
</tbody>
</table>

**FIFTH PART**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ALPHA</td>
<td>Requests for procuring of special means of transport</td>
<td></td>
</tr>
<tr>
<td>BRAVO</td>
<td>Items or convoys requiring an escort which the unit itself is unable to provide</td>
<td></td>
</tr>
<tr>
<td>CHARLIE</td>
<td>Any further information considered to be of use</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** The FIRST Part of this format must be completed in full. The SECOND, THIRD, FOURTH and FIFTH Parts to be filled in as necessary.
### MESSAGE

**FROM**: COMMANDER 12 INF BN  
**FOR**: COMMANDER MCG/INTER  
**INFO**: COMMANDER F INTER  
**SUBJECT**: TRANSPORT REQUEST

#### FIRST

**ONE**: MOV OF 12 INF BN OVER DISTANCE OF 250 KM  
**THREE**: COMMANDER 12 INF BN MAJOR JEAN S3 KLEMSKERKE  
**FOUR**: SECRET 982 OF 1273 Z  
**FIVE**: KLEMSKERKE ES 0177  
**SIX**: 122200 Z  
**SEVEN**: VERVIERS GS 0408  
**EIGHT**: 140600 Z  
**NINE**: BLACK  
**TEN**: NO

#### SECOND

**ONE**: A 40 + B 116 + C 638  
**TWO**: KITBAG / BATTLE DRESS  
**THREE**: CAPT. LOUIS

#### THIRD

**ONE**  
**BRAVO**: CARRIER 81 MM MORTAR MT/8/8/8  
**CHARLIE**: CARRIER HT M9/1/8/9/  
**DELTA**: 618 x 221 x 228 CM  
**FOXTROT**: BLANK  
**GOLF**: LORRY 3T/6/8/1/1/  
**HOTEL**: 567 x 230 x 310 CM  
**INDIA**: TRUCK MED WRECKER/3/18/15  
**JULIET**: 310 x 9.7 x 103 IN  
**ZULU**: 22

**THREE**  
**BRAVO**: JEEP/5/2/2/  
**CHARLIE**: AMBULANCE/2/5/5  
**DELTA**: 590 x 213 x 264 CM  
**ECHO**: VAN BAN/1/3/4  
**FOXTROT**: BLANK  
**GOLF**: LORRY 3T/6/8/1/1/  
**HOTEL**: 567 x 230 x 310 CM  
**INDIA**: TRUCK MED WRECKER/3/18/15  
**JULIET**: 310 x 9.7 x 103 IN  
**ZULU**: 22

**FOUR**  
**BRAVO**: TRAILER 250 KG 2-WHEEL/17/1/1/  
**CHARLIE**: TRAILER 1 T 2-WHEEL/3/1/1/  
**DELTA**: 380 x 220 x 217 CM

**FIVE**  
**BRAVO**: RESERVE FOOD SUPPLIES/15 T  
**CHARLIE**: INF AMMO/5 T

---

**Note**: The text appears to be structured in a tabular format, detailing various transportation requests and specifications. Each category (FIRST, SECOND, THIRD, FOUR, FIVE) lists different items and their specifications, such as vehicle types, dimensions, and quantities. The text includes secret information, indicating its sensitivity level.
MESSAGE
FROM : CMP OSTEND—NIEUWPOORT
FOR : ACTION : COMMANDER MCG/INTER
INFO : COMMANDER 1º AMMO DEPOT
SUBJECT : TRANSPORT REQUEST

FIRST
ONE : TRANSPORT OF AMMUNITION
THREE : CMP OSTEND LT COL BAUDRIER S3
       HOTEL COSMOPOLITE OSTEND TEL. 65232
FOUR : SECRET 2155 OF 12º8ººº Z
FIVE : PORT NIEUWPOORT—BASSIN DES PECHEURS DS 8276
SIX : 13ººººº Z
SEVEN : 1º AMMO DEPOT HOUTHULST DS 9746
NINE : RED
TEN : YES

FOURTH
ALPHA : INF AND ARTY AMMO
BRAVO : 4ºº T
CHARLIE : 8º x 4º x 3º CM
DELTA : 5º T/HR
ECHO : 6º T/HR
# Reply to Transport Request

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>(b)</td>
<td>(c)</td>
</tr>
</tbody>
</table>

## First Part

<table>
<thead>
<tr>
<th>ONE</th>
<th>Security Classification, Reference No. and “Date-time” group of transport request to which this reply relates.</th>
<th>Use the following code:</th>
<th>RED : road</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWO</td>
<td>Security Classification, Reference No. and “Date-time” group allocated to this reply by sender.</td>
<td>BLACK : rail</td>
<td>BLUE : inland</td>
</tr>
<tr>
<td>THREE</td>
<td>Means of transport allocated.</td>
<td>BLUE : inland waterway</td>
<td>GREEN : sea</td>
</tr>
<tr>
<td>FOUR</td>
<td>Complete statement of means of transport allocated.</td>
<td>YELLOW : air</td>
<td></td>
</tr>
<tr>
<td>FIVE</td>
<td>Rank, name and appointment of officer by whom this reply is signed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SIX</td>
<td>Any additional information considered useful.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Second Part

<table>
<thead>
<tr>
<th>ONE</th>
<th>Exact location of transport allocated “Date-time” group when embarkation or loading operations can begin.</th>
<th>Identification and coordinates</th>
<th>Indicate Time Zone. If necessary, break down into ALPHA, BRAVO, CHARLIE etc., if transport availability is spaced out over a period of time. Particularly important in the case of rail movements. Indicate Time Zone.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWO</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THREE</td>
<td>Expected approximate “Date-time” group of departure of loaded movement or transport.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOUR</td>
<td>Route</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIVE</td>
<td>Place of disembarkation or unloading Identification and coordinates.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SIX</td>
<td>Any information considered useful.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Third Part

<table>
<thead>
<tr>
<th>ONE</th>
<th>Any information regarding waiting or transit areas, points of first destination, etc.</th>
<th>If necessary, break down into</th>
<th>ALPHA, BRAVO, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWO</td>
<td>Special instructions; standards of marching, lighting, blackout line etc.</td>
<td>As above.</td>
<td></td>
</tr>
<tr>
<td>THREE</td>
<td>Comments regarding control and regulating of movements.</td>
<td>As above.</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The FIRST Part of this format **must be completed in full.** The other Parts will be filled in as necessary.
**REPLY TO TRANSPORT REQUEST**

<table>
<thead>
<tr>
<th>MESSAGE</th>
<th>SECRET</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM    : COMMANDER MCG/INTER</td>
<td></td>
</tr>
<tr>
<td>FOR ACTION : COMMANDER 12 INF BN</td>
<td></td>
</tr>
<tr>
<td>INFO : COMMANDER F INTER</td>
<td></td>
</tr>
<tr>
<td>SUBJECT : REPLY TO TRANSPORT REQUEST</td>
<td></td>
</tr>
</tbody>
</table>

**FIRST**

ONE : YOUR SECRET 982 OF 120730 Z
TWO : SECRET 551 OF 12 1100 Z
THREE : RED EXCEPT FOR YOUR THIRD PART ONE AND THIRD PART FIVE WHICH WILL USE BLACK
FOUR : 12 15METRE FLAT WAGONS AND 5 12T CLOSED WAGONS
FIVE : MAJOR JACQUES S3

**SECOND**

ONE : OSTEND MARITIME STATION DS 9775
TWO : 130200 Z
THREE : 130600 Z
FIVE : VERVIERS EAST STATION GS 0409

**THIRD**

TWO : RAMPS AVAILABLE AT OSTEND AND VERVIERS
THREE ALPHA : FOR YOUR RED MOVEMENT, YOU SHOULD APPLY FOR MOVEMENT CREDIT THROUGH NORMAL CHANNELS
BRAVO : BLACK MOVEMENT CAN BE CONTACTED VIA TRO GAND ST PIERRE AND LOUVAIN
**FM 55-10**

**APPENDIX 2 to ANNEX 'B'**

to STANAG 2156

**REPLY TO TRANSPORT REQUEST**

<table>
<thead>
<tr>
<th>MESSAGE</th>
<th>SECRET</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM : COMMANDER MCG/INTER</td>
<td></td>
</tr>
<tr>
<td>FOR : ACTION : CMP OSTEND NIEUWPOORT</td>
<td></td>
</tr>
<tr>
<td>INFO : COMMANDER 10 AMMO DEPOT URGENT OPS URGENT</td>
<td></td>
</tr>
<tr>
<td>SUBJECT : REPLY TO TRANSPORT REQUEST</td>
<td></td>
</tr>
<tr>
<td>FIRST</td>
<td></td>
</tr>
<tr>
<td>ONE</td>
<td></td>
</tr>
<tr>
<td>TWO</td>
<td></td>
</tr>
<tr>
<td>THREE</td>
<td></td>
</tr>
<tr>
<td>FOUR</td>
<td></td>
</tr>
<tr>
<td>FIVE</td>
<td></td>
</tr>
<tr>
<td>SIX</td>
<td></td>
</tr>
<tr>
<td>SECOND</td>
<td></td>
</tr>
<tr>
<td>ONE</td>
<td></td>
</tr>
<tr>
<td>TWO</td>
<td></td>
</tr>
<tr>
<td>THREE</td>
<td></td>
</tr>
<tr>
<td>FOUR</td>
<td></td>
</tr>
<tr>
<td>FIVE</td>
<td></td>
</tr>
<tr>
<td>THIRD</td>
<td></td>
</tr>
<tr>
<td>ONE</td>
<td></td>
</tr>
<tr>
<td>BRAVO</td>
<td></td>
</tr>
<tr>
<td>THREE</td>
<td></td>
</tr>
</tbody>
</table>

**SECRET**

- YOUR SECRET 2155 OF 120838 Z
- SECRET 588 OF 12 1345 Z
- RED
- 20 5T CIVILIAN LORRIES FOR 4 UNINTERRUPTED TRIPS
- MAJOR JACQUES S3
- THESE CIVILIAN VEHICLES WILL BE PROVIDED BY OTR FURNES TEL. 216.29—GARAGE MODERNE—55, RUE DE LA GARE
- NIEUPWOORT—MARCHE AUX GRAINS—DS 8276
- 120900 Z
- 12 1200 Z/13 1800 Z/13 2300 Z/14 0400 Z
- PERVYSE/DIRSMUIDE/KLERKEN/HOUTHULST
- 10 AMMO DEPOT HOUTHULST DS 9746
- SEND REPRESENTATIVE TO MARCHE AUX GRAINS NIEUWPOORT TO DIRECT VEHICLES TO LOADING QUAY
- WHEN MISSION COMPLETED PLACE TRANSPORT AT DISPOSAL OF OTR FURNES
- ROUTE UNSPECIFIED
APPENDIX L

STANAG 2159

IDENTIFICATION OF MOVEMENTS PERSONNEL AND OFFICES

Agreed English/French Texts

STANAG 2159
(Edition No. 2)

DETAILS OF AGREEMENT
IDENTIFICATION OF MOVEMENTS PERSONNEL AND OFFICES

AGREEMENT

1. The NATO Armed Forces agree to use the methods set out in Parts I and II below, for identifying:
   a. Movement Control Personnel.
   b. Movement Planning and Control Agencies where these are not an integral part of a superior headquarters.

PART I—ARMBANDS FOR MOVEMENT CONTROL PERSONNEL

2. Distinguishing armbands shall be used to identify all movement control personnel who come into personal contact with forces being moved by road, rail, air or any other agency.

   NOTE: This does not refer to personnel posted on the routes solely to assist the flow of road traffic proper; such personnel wear white cuffs (STANAG 2025, paragraph 23).

3. It is agreed that the armband will be red approximately 16½ inches (42 cm) long and 3½ inches (9 cm) wide, with a yellow wheel with eight spokes, 3 inches (7.5 cm) in diameter. It will normally be fastened by four hooks or dome fasteners. 1 inch (2.5 cm) apart.

4. The standard armband will be worn on duty in accordance with the uniform regulations of the country concerned but in such a way that the wheel can be clearly seen.

   NOTE: Staff officers may wear normal staff armbands if that is the usual practice of the countries concerned.

PART II—IDENTIFICATION OF MOVEMENTS AND TRANSPORT AGENCIES AND OF SERVICES RESPONSIBLE FOR ROAD TRAFFIC CONTROL

5. Standard signs shall be used to identify movement planning and control agencies where these are not an integral part of a superior headquarters. Those agencies which are part of a superior headquarters shall be identified in accordance with STANAG 2030.

6. It is agreed that:
   a. The signs will conform to the procedures laid down in STANAG 2012. They will be rectangular in shape, the longest sides being vertical and the symbols will be painted white on a black background.
b. The signs will display the following:
   (1) The symbols laid down in STANAG 2019, or, if no appropriate symbol can be found in STANAG 2019: an eight spoked wheel, with additional national distinguishing symbols (STANAG 2027) as required.
   (2) The national distinguishing letters in accordance with STANAG 1059.
   (3) The direction and/or distance to the agency concerned, if necessary.
7. Examples are given in Annex “A” (DofA).

IMPLEMENTATION OF THE AGREEMENT

8. This STANAG will be considered to have been implemented when the necessary orders/instructions, to adopt the methods of identification described in this Agreement, have been issued to the forces concerned.
1. **AGENCIES FOR WHICH THERE IS AN AGREED NATO CONVENTIONAL SIGN IN STANAG 2019**

![Diagram showing traffic post and direction]

No. 4 Traffic Post of the 2nd French Division at 1 km to the right.

2. **AGENCIES FOR WHICH THERE IS NO AGREED NATO CONVENTIONAL SIGN IN STANAG 2019**

- **Local Transport Office (Belgian)**
  - (In Communications Zone)
  - Straight ahead at 100m

- **Movement Control Office (British)**

- **Joint Liaison Post (Belgian/French)**

**NOTE:** Lettering and diagrams are shown in **white** on a **black** background.

*Figure L-1. Annex A to Details of Agreement of STANAG 2159 (Edition No. 2).*
APPENDIX M

STANAG 2164

ADVICE OF MOVEMENT

Agreed English/French Texts

STANAG 2164

DETAILS OF AGREEMENT

ADVICE OF MOVEMENT

Enclosures: Annex “A”—Advice of Movement of Personnel (AMOVPER)
Annex “B”—Advice of Movement of Freight (AMOVMAT).

GENERAL

1. This agreement covers the procedure for advising transit and destination authorities of the movement of personnel and freight and applies to NATO Armed Forces operating in a ground role. It deals only with internal movement (or transport) and, therefore, does not deal with movement which involves trans world movement by sea or by air.

2. Internal movement is defined as movement by an agency within a country, or within a defined land mass which may contain several countries, e.g., N. W. EUROPE. Among these types of movements (or transport) taken as a whole some require special consideration, due, on the one hand, to the nature of the load and on the means of transport to be used, and on the other hand, to the time in which they have to be carried out. For such types of movement (or transport) it would appear desirable that the receiving authorities (and if need be, the transit authorities) be notified in advance by the dispatching authorities in order that:
   a. the transport may be monitored and regulated as necessary,
   b. receipt arrangements and, where necessary, off-loading arrangements may be made.
   c. appropriate action may be taken in the event of unforeseen incidents or changes of plan.
   d. non arrivals or delays may be investigated.

3. For these purposes, the despatching authorities will prepare a message called “Advice of Movement of Personnel” (AMOVPER) and “Advice of Movement of Freight” (AMOVMAT). These are shown in Annexes A and B.

AIM

4. The aim of this agreement is to—
   a. list the “Movements (or transport) categories” for which, in view of either the nature of the load or the means of transport employed, advice of movement is considered necessary;
b. define the “types of movement (or transport)” conditions to be complied with in order that, as a result of the time-table laid down, “Advice of Movement” shall be considered necessary;

c. standardize the information and form of messages advising the movement of personnel and freight.

AGREEMENT

5. The NATO Armed Forces agree to use the advice of movement of personnel (AMOVPER) and advice of movement of freight (AMOVMAT) for the following “categories” of types of movements (or transport):

a. Categories of Movements (or Transport)
   (1) vehicles, guns and self-propelled equipment;
   (2) empty or filled, military controlled and “pool” warflats, warflat trains, warwells, rectanks, internal user wagons, coaches, ward cars or ramp wagons;
   (3) military traffic on warflats let to civilian railway organizations;
   (4) military locomotives, workshops vans, weed-killing trains or cistern wagons (tankers);
   (5) ammunition, projectiles or missile;
   (6) exceptional loads;
   (7) all special trains transporting military personnel.

b. Types of Movement (or Transport)
   (1) mobilization movements;
   (2) traffic required to be at a destination by a date or at a time sufficiently short to justify the adoption of the “Urgent” procedure;
   (3) any traffic specially advised as “Urgent” by a headquarters authorized to do so.

c. Form of Messages
   (1) AMOVPER and AMOVMAT messages will contain necessary information as indicated in Annexes A and B.
   (2) The information will be identified by the paragraph code given in Annexes A and B.
# Advice of Movement of Personnel (AMOVPER)

<table>
<thead>
<tr>
<th>PARA/CODE</th>
<th>MEANING</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>(b)</td>
<td>(c)</td>
</tr>
<tr>
<td>ONE</td>
<td>Authority and/or Movement No.</td>
<td>If movement not connected to a pre-planned move a brief summary of move will be given.</td>
</tr>
<tr>
<td>TWO</td>
<td>Number of personnel by ranks</td>
<td></td>
</tr>
<tr>
<td>ALPHA</td>
<td>A + B + C</td>
<td>1. ALPHA—Male personnel</td>
</tr>
<tr>
<td>BRAVO</td>
<td>A + B + C</td>
<td>2. BRAVO—Female personnel</td>
</tr>
<tr>
<td>THREE</td>
<td>Details of accompanied baggage or equipment i.e. location, weight and cube</td>
<td></td>
</tr>
<tr>
<td>FOUR</td>
<td>Identification of means of transport</td>
<td>Use the following code: Red for road transport, Black for rail transport, Blue for inland water transport, Green for sea transport, Yellow for air transport. Followed by: 1. Military train number and number of wagons. 2. Number of road convoy or number of vehicle. 3. Chalk number of Aircraft. 4. Name and/or number of barge as appropriate.</td>
</tr>
<tr>
<td>FIVE</td>
<td>Place of departure and ETD.</td>
<td>Time zone to be shown.</td>
</tr>
<tr>
<td>SIX</td>
<td>Destination and ETA.</td>
<td></td>
</tr>
<tr>
<td>SEVEN</td>
<td>Route, transshipment points and ETA at transshipment points.</td>
<td></td>
</tr>
<tr>
<td>EIGHT</td>
<td>NOT APPLICABLE</td>
<td></td>
</tr>
<tr>
<td>NINE</td>
<td>Additional information and instructions if necessary.</td>
<td></td>
</tr>
</tbody>
</table>
ADVICE OF MOVEMENT OF FREIGHT (AMOVMAT)

<table>
<thead>
<tr>
<th>PARA/CODE</th>
<th>MEANING</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Authority and/or consignment number</td>
<td>If movement not connected to a pre-planned move a brief summary of move will be given.</td>
</tr>
<tr>
<td>ONE</td>
<td>Brief description, nature and tonnage of</td>
<td></td>
</tr>
<tr>
<td>TWO</td>
<td>freight/equipment.</td>
<td></td>
</tr>
<tr>
<td>THREE</td>
<td>NOT APPLICABLE</td>
<td>Use the following code:</td>
</tr>
<tr>
<td>FOUR</td>
<td>Identification of means of transport</td>
<td>Red for road transport</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Black for rail transport</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blue for inland water transport</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green for sea transport</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yellow for air transport</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Followed by:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Military Train Number and number of wagons.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Number of road Convoy or Number of Vehicle.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Chalk Number of Aircraft.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Name and/or Number of Barge as appropriate.</td>
</tr>
<tr>
<td>FIVE</td>
<td>Place of departure and ETD</td>
<td>Time zone to be shown</td>
</tr>
<tr>
<td>SIX</td>
<td>Destination and ETA</td>
<td></td>
</tr>
<tr>
<td>SEVEN</td>
<td>Route, transshipment points and ETA</td>
<td></td>
</tr>
<tr>
<td>EIGHT</td>
<td>Time allowed for unloading at destination</td>
<td></td>
</tr>
<tr>
<td>NINE</td>
<td>Additional information and instructions</td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX N
STANAG 2166
MOVEMENTS AND TRANSPORT DOCUMENTS USED FOR MOVEMENTS BY SHIP

Agreed English/French Texts

DETAILS OF AGREEMENT (DofA)
MOVEMENTS AND TRANSPORT DOCUMENTS USED FOR MOVEMENTS BY SHIP

Enclosures: See paragraph 1 below.

AGREEMENT
1. The NATO Armed Forces agree to adopt the following documents for movements by ship between NATO Nations:
   a. STRENGTH RETURN—MOVEMENTS BY SHIP
      See Annex ‘A’ (DofA).
   b. SAILING SIGNAL—FREIGHT (VICE)
      See Annex ‘B’ (DofA).
   c. SAILING SIGNAL—TROOP TRANSPORT (VICE)
      See Annex ‘C’ (DofA).
      NOTE: The following Annexes are still under preparation and will be forwarded at a later date for ratification:
   d. CARGO AND STOWAGE REPORT
      To be issued as Annex ‘D’ (DofA).
   e. STOWAGE PLAN
      To be issued as Annex ‘E’ (DofA).
   f. SHIP’S DISCHARGE BOOK
      To be issued as Annex ‘F’ (DofA).

IMPLEMENTATION OF THE AGREEMENT
2. This STANAG will be considered to have been implemented when the necessary orders/instructions, bringing into use the documents mentioned in the agreement, have been issued to the forces concerned.
STRENGTH RETURN—MOVEMENTS BY SHIP

1. The purpose of the form "Strength Return—Movements by Ship" (Appendix 1) is to provide a summary of personnel embarked to military authorities responsible for troop transport.

2. The form may also be used for embarkation of military or military sponsored personnel travelling on commercial ships.

3. The form is supported by a nominal roller or passenger-list, which gives the personal particulars of all passengers embarked.

4. The form is amended as necessary during the process of embarkation by the Embarkation Staff Officer (ESO). When ultimately signed by him, it becomes a certificate of personnel actually embarked on the ship.

5. The Strength Return deals with personnel only. No unit equipment (other than personal) will be entered on the form. Only the number of pieces of personal baggage will be entered; separate baggage receipts will be made out.

6. Unit equipment (other than personal) will be shipped on separate cargo documents, irrespective of whether or not the cargo is loaded on the same ship as the unit.

7. A distinction will be made between male and female personnel, military and civilian, travelling under military sponsorship.

8. As certain NATO countries have special arrangements concerning time served in the tropics (between the Tropic of Cancer and the Tropic of Capricorn) the dates of crossing these tropics must be entered on the form by the Embarkation S’aff Officer (ESO) at the time of disembarkation. The exact information will be taken from the Master’s logbook.

9. The instructions for the completion of the form and the distribution of the copies of the Strength Return will be printed on the reverse side of the form, as shown in Appendix 2.

10. The form will be printed in:
    a. English and French, if the language of the country of origin is English or French;
    b. The language of the country of origin and in English and French if the language of origin is not English or French.

11. The form will be printed on the standard size paper of the country concerned, approximately 30 x 20 cm (12 x 8 inches).
## STRENGTH RETURN

### MOVEMENTS BY SHIP

On embarkation and disembarkation of ____________________________
moving from ____________________________ to ____________________________

To be entered by the ESO (5)

<table>
<thead>
<tr>
<th>EMBARKED at</th>
<th>per MV/SS</th>
<th>Crossing Tropic of Cancer</th>
<th>DISEMBARKED at</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DETAIL (6)</th>
<th>Strength on departure for Port of Embark.</th>
<th>Casualties en route for Port of Embark.</th>
<th>Strength actually during voyage</th>
<th>Casualties during voyage</th>
<th>Strength actually during voyage</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>(b)</td>
<td>(c)</td>
<td>(d)</td>
<td>(e)</td>
<td>(f)</td>
<td>(g)</td>
</tr>
<tr>
<td>Officers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W/O Officers I</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W/O Officers II</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S/S Sergeants</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sergeants</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corporals and below</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Officers   |                                            |                                        |                               |                          |                               |         |
| W/O Officers I |                                                  |                                        |                               |                          |                               |         |
| W/O Officers II |                                              |                                        |                               |                          |                               |         |
| S/S Sergeants |                                                  |                                        |                               |                          |                               |         |
| Sergeants   |                                            |                                        |                               |                          |                               |         |
| Corporals and below |                                              |                                        |                               |                          |                               |         |
| TOTAL       |                                            |                                        |                               |                          |                               |         |

| Male       |                                            |                                        |                               |                          |                               |         |
| Female     |                                            |                                        |                               |                          |                               |         |
| Children   |                                            |                                        |                               |                          |                               |         |
| (under 10 years) |                                              |                                        |                               |                          |                               |         |
| TOTAL       |                                            |                                        |                               |                          |                               |         |

<table>
<thead>
<tr>
<th>GRAND TOTAL</th>
<th>Name</th>
<th>Rank</th>
<th>Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>OC despatching unit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESO Port of EMBARK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OC unit/OC troops (3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESO Port of DISEMB</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Security Classification (1)
INSTRUCTIONS FOR COMPLETION AND DISTRIBUTION OF THE FORM

COMPLETION
(1) Issuing authority will insert the security classification given in the administrative or other instructions for the move for which this form is prepared.

(2) Insert title or serial number (if applicable) of unit or portion of unit moving.

(3) Insert station and country of departure, unless otherwise instructed.

(4) Insert place and country of final destination, unless otherwise instructed.

(5) To be entered by the ESO:
   a. Port, country and date of embarkation.
   b. Name of the vessel.
   c. Date of crossing the Tropic of Cancer/Capricorn (delete if not appropriate), to be taken from the Master's logbook.
   d. Port, country and date of disembarkation.

(6) Substitute, if necessary, rank designations of the nation and service concerned.

(7) Insert, if appropriate, particulars of any casualties.

(8) Delete if not appropriate.

DISTRIBUTION
a. This form will be prepared in six copies by the unit or authority responsible for assembling of the personnel concerned and sending them to the port of embarkation (despatching unit). All six copies of this form will be handed to the movements staff at the port of embarkation.

b. After completion and signing (as far as possible) of the forms the movements staff at the port of embarkation will retain two copies for its own use and deliver or forward four copies as follows:
   (1) One copy to the officer commanding the unit or to the OC Troops;
   (2) One copy to the despatching unit;
   (3) Two copies to the movements staff at the port of disembarkation; these copies will be sent by different means, one of them the fastest possible.

   c. On arrival at the port of disembarkation the officer commanding the unit or the OC Troops will hand his copy (signed and amended as necessary in the event of casualties, etc.) to the movements staff at the port of disembarkation.

REFERENCES
a. State if necessary the specific regulations of the country of origin
b. State if necessary the specific regulations for the movements staff of the country concerned at the port of disembarkation
ANNEX ‘B’ to DETAILS OF AGREEMENT
of STANAG 2166

SAILING SIGNAL—FREIGHT (VICE)

1. Movements staffs at port of loading will despatch a sailing signal for each ship carrying military cargo as soon as loading has been completed. Instructions for preparing these signals are given below.

2. Precedence. Sailing signals will be assigned a precedence in accordance with existing NATO procedures.

3. Security Classification. The originator is to insert the appropriate security classification.

4. Text.
   a. The text of the signal will clearly begin with the word “Vice” (traditional abbreviation for “Advice”). When it is not clear from either the address or the originator’s number that the signal is for Movements, the text will begin “For Mov” (.). (Vice) (.).
   
   b. The body of the signal will consist of the particulars given below, preceded by the code letter shown against each:
      
      (A) Name of ship.
      (B) Port of loading and ETD (Estimated Time of Departure).
      (C) Port of discharge (if known) and ETA (Estimated Time of Arrival). If the port of discharge is not known the country of discharge will be stated.
      (D) Consignee.
      (E) Deadweight tonnage of stores by types, excluding those details in (F), (G) and (H) below.
      (F) Appropriate description of classified equipment, ammunition and explosives with the total deadweight tonnage and stowage.
      (G) Full description of cabin freight and “lock up” stores, with deadweight tonnage and full details of stowage.
      (H) Full description of stores stowed on deck, with deadweight tonnage.
      (J) Numbers and types of vehicles and tanks, showing separately those stowed on deck.
      (K) Total deadweight of cargo including vehicles and tanks.
      (L) Remarks including details of awkward and exceptionally heavy lifts (e.g., immobile vehicles and lifts exceeding the capacity of the ship’s derricks).
   
   c. When copies of Movement Instructions (Freight) have been dispatched so as to reach the action addressers before the possible arrival of a sailing signal, an abbreviated sailing signal will be sent in the following form:
      
      (A) ________
      (C) As in sub-para b above.
      (B) ________
      (D) Does not apply.
      (E) Reference to the Movement Instructions (MI) (Freight) with details of variations, e.g.:
      (i) MI (Freight) No. ________ Complete
(ii) MI (Freight) No.________less (Stores Identification No.), or
less . . . “shut out”

(iii) MI (Freight) No.________plus (Stores Identification No.) with
full description of additional cargo

(F) Does not apply.

(G) As in sub-para b above.

(H) and (J) Does not apply.

(K) 

(L) As in sub-para b above.

NOTE: When a full description is required, the following information will
be given:
Identification Number.
Number of packages.
Type of stores.
Consignee.

5. Specimen Sailing Signal—Freight (Vice). A Specimen Sailing Signal—
Freight is given at Appendix 1 to Annex ‘B’ (DofA).
APPENDIX 1 to ANNEX ‘B’ (DofA)
of STANAG 2166

SPECIMEN SAILING SIGNAL—FREIGHT (VICE)

 MESSAGE FORM

<table>
<thead>
<tr>
<th>PRECEDENCE—</th>
<th>PRECEDENCE—</th>
<th>DATE-TIME—</th>
<th>PRIORITY</th>
<th>DEFERRED</th>
<th>190700Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTION</td>
<td>INFO GROUP</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FROM: PORTMOVES LONDON

TO: MOV ANTWERP

INFO: WAR OFFICE Q(M)1

HQ BAOR

COMD NCG/INTER

VICE

(A) SS BENARTY

(B) LONDON 19 JUN

(C) ANTWERP 20 JUN

(D) TKS AND B VEHS TO 5 BOD. SUPS TO 3 SIG. SIGN EQPT AND MED STORES TO 12 INF BN

(E) SUPS 120 TONS. POL 500 TONS. ORD 600 TONS

(F) ONE CWT SIG EQPT CATEGORY ONE STOWED NO 2 TWEEN DECK LOCK-UP

(G) ONE CWT MED STORES C/OCHIEF OFFICER CABIN

(H) 5 TONS ENGR BRIDGING EQPT

(J) 3 CENTURIONS NO 2 LOWER HOLD. TEN 3 TON B VEHS PORT AND STARBOARD OF NO 1 HATCH

(K) 895 TONS 2 CWT

(L) LOCO BOILER DW 35 TONS STOWED NO 1 LOWER HOLD BEYOND CAPACITY OF SHIPS' DERRICKS.
SAILING SIGNAL—TROOP TRANSPORT (VICE)

1. Movements staffs at ports of embarkation will ensure that a signal is despatched to all concerned, as soon as possible after the sailing of a ship on which Forces or Forces sponsored passengers have been embarked. Instructions for preparing these signals are given below.

2. Precedence. Sailing signals will be assigned a precedence in accordance with existing NATO procedures.

3. Security Classification. The originator is to insert the appropriate security classification.

4. Text.
   a. The text of the signal will clearly begin with the word “Vice” (traditional abbreviation for “Advice”). When it is not clear from either the address or the originators number that the signal is for Movements the text will begin “For Mov”. (Vice).
   b. The body of the signal will consist of the particulars given below, preceded by the code letter shown against each;
      (A) Name of ship.
      (B) Port of Embarkation and ETD (Estimated Time of Departure).
      (C) Port of Disembarkation and ETA (Estimated Time of Arrival).
      (D) Number of passengers on board by categories.
      (E) Destination of passengers.
      (F) Tonnage of baggage by categories and stowage. (This may be the subject of a separate signal if desired.)
      (G) Remarks including medical assistance required on disembarkation, prisoners, etc.

5. If necessary, sailing signals may be compiled in several parts, each relating to one port of call.

6. Specimen Sailing Signal/Troop Transport (Vice). A specimen Sailing Signal—Troop Transport (Vice) is given at Appendix 1 to Annex ‘C’ (DofA).
SPECIMAN SAILING SIGNAL—TROOP TRANSPORT (VICE)

MESSAGE FROM

PRECEDENCE—PRECEDENCE—DATE-TIME—
ACTION INFO GROUP
ROUTINE DEFERRED 190600 Z

FROM: EMBARKING SECURITY CLASSIFICATION
    LIVERPOOL

TO: MOV ANTWERP UNCLASSIFIED
    (Classified in Wartime)

INFO: WAR OFFICE Q(M)2 ORIGINATORS NUMBER
    HQ BAOR
    COMD NCG/INTER
    MOV 12

VICE

(A) EMPIRE WANSBECK
(B) LIVERPOOL 190545Z
(C) OSTENDE 200400Z
(D) MALES: OFFICERS 50. WO AND SGTS 100. CPL & BELOW 700. FEMALES: OFFICERS 10. WOs AND SGTS 30. CPL & BELOW 70. FAMILIES/DEPENDENTS: 1ST CLASS 40. 2ND CLASS 60. 3RD CLASS 100.
(E) MALES TO TRANSIT CAMP OSTENDE. FEMALES TO HOSTEL BRUSSELS.
(F) 50 TONS TO OSTENDE. 10 TONS TO BRUSSELS. STOWED NO. 2 HOLD.
(G) AMB REQUIRED FOR 6 FEMALE CASUALTIES.
APPENDIX O

STANAG 3093

NATO AIR TRANSPORT REQUEST AND ANSWER TO AIR TRANSPORT REQUEST
(NARAT AND TRANSAR)

DETAILS OF AGREEMENT (DofA)

Enclosures: Annexes “A” and “B” to Details of Agreement.

NATO AIR TRANSPORT REQUEST AND ANSWER TO AIR TRANSPORT REQUEST (NARAT AND TRANSAR)

AGREEMENT

1. Participants agree to use the two message formats, “NARAT” and “TRANSAR” as set out in Annexes “A” and “B” of the Details of Agreement (DofA), for requests, and acceptance of requests, for air transport.

IMPLEMENTATION

2. This agreement will be considered to have been implemented when instructions to use the message formats specified in Annexes “A” and “B” of the Details of Agreement have been issued to a nation’s military forces.
Purpose
1. This is the message whereby a unit or formation can request air transport support for:
   a. Carriage of troops
   b. Carriage of cargo
   c. Aeromedical evacuation
      (See Note 1)

Format and Content

<table>
<thead>
<tr>
<th>Precedence—Action (See Note 2)</th>
<th>Message Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM</td>
<td></td>
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<tr>
<td>TO</td>
<td></td>
</tr>
<tr>
<td>INFO</td>
<td></td>
</tr>
</tbody>
</table>

INFO
NARAT Will be the first word of the message (See Note 4)
REQUEST NO. (See Note 5)

FIRST. CARRIAGE OF TROOPS
A. No. of troops and total weight (See Note 6)
B. Pick-up point to include Grid Ref /Identification /Nickname.
C. Delivery Point: to include Grid Ref /Identification /Nickname.
D. Method of Delivery preferred (Stating reasons)
E. If delivery point is an airstrip what are restrictions.
F. If delivery point is a Drop Zone (DZ), direction of run-in recommended, dimensions of D.Z., and Code Identifying Letter of Impact Point.
G. If delivery by helicopter number of LPs within LS.
H. Remarks (See Note 7).

SECOND. CARRIAGE OF CARGO
A. Total weight to be lifted (See Note 8).
B. Outline of load (See Note 9).
C. Weight and dimensions of largest single item and of each type of vehicle.
D. Pick-up point giving Grid Ref /Identification /Nickname.
E. Delivery point giving Grid /Ref /Identification /Nickname.
F. Method of delivery preferred (Stating reasons).
G. If delivery point is an airstrip any restrictions.
H. If delivery point is a Drop Zone (DZ), direction of run-in recommended, dimensions of DZ, and code identifying letter of Impact Point.
J. If delivery by helicopter, number of LPs within LS.
K. Remarks. Special instructions regarding loading/unloading; e.g. external/internal. Pallet /Net etc.

THIRD. AEROMEDICAL EVACUATION
A. No. of stretcher cases See Note 10
B. No. of sitting cases
C. Pick-up point giving Grid Ref /Identification /Nickname.
D. Remarks (Doctor available—any other medical instructions)
<table>
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<tr>
<th>FOURTH. TIMINGS (ZULU)</th>
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<tbody>
<tr>
<td>A. No move before Date/Time</td>
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<td>B. Earliest delivery. Date/Time</td>
<td></td>
</tr>
<tr>
<td>C. Latest delivery. Date/Time (After which lift not required or unacceptable)</td>
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<table>
<thead>
<tr>
<th>FIFTH. COMMUNICATIONS (See Note 11)</th>
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<tr>
<td>A. Frequency (VHF/UHF/beacon)</td>
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<tr>
<td>B. Callsign of LX/DZ/Airstrip</td>
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</tr>
<tr>
<td>C. Remarks. Special instructions (e.g. colour of smoke etc.)</td>
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<table>
<thead>
<tr>
<th>SIXTH. SPECIAL INSTRUCTIONS</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Any instructions not covered in FIRST to FIFTH.</td>
<td></td>
</tr>
</tbody>
</table>
NOTES

1. PROCEDURE
   The message is passed to the tasking agency either through command channels or the appropriate Tactical Support net.

2. PRECEDENCE
   Immediate requests should normally be given the precedence of OPERATIONAL IMMEDIATE. For preplanned requests—as required.

3. SECURITY CLASSIFICATION
   Normally RESTRICTED or higher classification, but in an emergency it may be sent in clear.

4. All underlined paragraphs of the message are to be completed by the originator but sub paragraphs (e.g. A, B, C etc.) only as applicable. When a paragraph is NOT applicable the word NIL must be used.

5. REQUEST NUMBER
   The request letter and number group will identify the requesting formation and the serial number of its request; identifying letters and blocks of numbers will be allotted to formations by the senior formation headquarters in the theatre. Whenever possible this request number should be used as the task/mission number.

6. WEIGHT OF TROOPS
   Nations will vary in the calculated estimation of troop weights.

7. REMARKS
   This paragraph should be used if it is necessary to amplify the reasons for the method of delivery preferred to assist the staffs in meeting this request.

8. CARGO WEIGHTS
   Total weight of cargo to be lifted must be completed by the requesting unit/formation.

9. OUTLINE OF LOAD
   Details of loads by type should be given including dangerous cargo.

10. CATEGORIZATION OF PATIENTS
    The categorization of patients will be in accordance with agreed international regulations (see STANAG 3204).

11. COMMUNICATIONS
    Frequencies are not to be transmitted in plain language unless emergency conditions render it essential. Previously allocated circuit designators are to be used.
AIR TRANSPORT ACCEPT/REFUSE MESSAGE  
(TRANSAR)

Annex 'B' to the 
Details of Agreement 
of STANAG 3093 
(Edition No. 3)

PURPOSE

1. The message whereby the air transport tasking agency informs a unit/formation of the acceptance or refusal of an air transport request.

FORMAT AND CONTENT

<table>
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<tr>
<th>Precedence—Action</th>
<th>Message Instructions</th>
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<tr>
<td>FROM</td>
<td>Security Classification</td>
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<tr>
<td>TO</td>
<td>(See Note 3)</td>
</tr>
<tr>
<td>INFO</td>
<td>Originators No.</td>
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</tbody>
</table>

TRANSAR—Always start of message (See Note 4)
REQUEST NO. The request number of the NARAT message should be used.

ACCEPTED OR REFUSED
Giving the reasons for refusal and any alternative offered.
A. Estimated time of arrival/P Hour (See Note 5)
B. Mission number allotted by the tasking agency, (whenever possible should be the same as the request number).
C. Callsign of aircraft (or formation leader)
D. Method of delivery (decided by tasking agency and includes numbers, type and payload of each aircraft).
E. Special Instructions. (Should include any differences in direction of run /signals/navigation/lighting aids to those requested in the NARAT).

NOTES

1. PRECEDENCE. Normally up to PRIORITY depending on tactical urgency, and delays on communication circuits, but higher precedence in case of refusal or alteration.

2. MESSAGE INSTRUCTIONS. Insert command channel or Tactical Support net whichever is appropriate.

3. SECURITY CLASSIFICATION. As applicable. If speed is required send UNCLAS but omit details of aircraft.

4. All underlined elements of the message are to be completed by the originator but sub paragraphs (e.g. A, B, C, etc.) only as applicable. When a paragraph is not applicable the word NIL must be used.

5. If the ETA is NOT known, it should be sent later. The TRANSAR message not to be delayed on this account. Where more than one time is involved these must be related to the appropriate paragraph of the NARAT.
FM 55-10

APPENDIX P

STANAG 3344

PROCEDURES FOR TRACING AND DISPOSING OF BAGGAGE (BAGLO/TROBAG)

Original English/French Translation

DETAILS OF AGREEMENT

PROCEDURES FOR TRACING AND DISPOSING OF BAGGAGE (BAGLO/TROBAG)

Enclosures

I. Annex ‘A’ Lost Baggage Message (BAGLO)

II. Annex ‘B’ Found Baggage Message (TROBAG)

1. Participants agree, as detailed below, to use a standard method to report on and to initiate tracing action for baggage reported as lost, and to use a standard method to inform on and to seek disposal of baggage reported as found.

2. Definitions

a. Lost baggage:—accompanied baggage separated from its owner en route;

b. Found baggage:—unclaimed baggage located aboard an aircraft or at an air terminal.

NOTE: Unaccompanied baggage is included in the term “cargo” and does not fall within the provisions of this agreement.

3. Procedures

a. Units of NATO forces may communicate directly on matters pertaining to lost and found baggage;

b. Lost Baggage. A lost baggage message (short title ‘BAGLO’) will be despatched immediately to the emplanement airfield, to each en route stop, and to final destination of the flight. The composition of this message will be as shown at Annex ‘A’.

c. Found Baggage. A found message (short title ‘TROBAG’) will be despatched to the units mentioned below for each NATO nation. The composition of this message will be as shown at Annex ‘B’.


(2) Canada: Air Transport Command Headquarters, Royal Canadian Air Force, Trenton, Ontario.

(3) France
   (Peace-time) Base de Transit Air No. 250, 5, Ave de la Porte de Sevres—Paris 15e.
   (War-time) District de Transit de Paris—Paris.

(4) German Federal Republic: Lufttransportkommando der Bundeswehr, Köln—Wahn.

(5) Italy: Italy—Comando Transporti Aerei, Roma, Ciampino.

(7) Turkey : Turk Hava Kuvvetleri Komutanligi, Lojistik Baskanligi, Ankara, Turkey.


(9) United States : MATS Found Baggage Center, Scott Air Force Base, Illinois.

(10) Other participating nations as applicable.

4. Disposal of Unclaimed Baggage. Where disposal of baggage to its rightful owner cannot be accomplished, ultimate disposal will be effected in accordance with the following instructions for each NATO nation concerned:

   a. Belgium : AP 3150, RAF Manual of Movements (Modified to apply to Belgium).
   b. Canada : RCAF Administrative Order 25.21/01.
   c. Germany : German Civil Code (Bürgerliches Gesetzbuch), Paragraph 979.
   e. United Kingdom : AP 3150, RAF Manual of Movements.
   g. Other participating nations as applicable.
ANNEX 'A' TO STANAG 3344

LOST BAGGAGE MESSAGE (BAGLO)

1. FORMAT
   ADDRESSOR
   ADDRESSEE
   (1) BAGLO
   (2) Baggage Tag Number(s) and/or Owner Identification Marks.
   (3) Colour, Number of pieces by type, any other brief descriptions
       that may facilitate identification.
   (4) Flight Serial and Itinerary.
   (5) Point of Origin, and Date of Departure and Destination Point of
       Baggage Shipment.
   (6) Other instructions.

2. EXPLANATION
   (1) The body of the message is to begin with ‘BAGLO’ which is short
       for ‘Baggage Lost’.
   (2) Owner identification marks may include: name, rank, serial number,
       parent unit or base, other markings.
   (4) To include any name or serial number by which the flight is iden-
       tified, departure and itinerant points served by the flight.
   (5) Point and date on which the baggage was emplaned and ultimate
       destination of the baggage.
   (6) Any other pertinent information or instruction.

3. EXAMPLE
   FROM: COM 1010 ABW ANDREWS AFB MD
   TO : 2 MOV U AIR LACHINE QUEBEC
   INFO : COM 1601 ATW MAGUIRE AFB NJ
   (1) BAGLO
   (2) TAG 46728 and 46729 EVANS SGT. USAF NO OTHER
   (3) 2 BROWN SUITCASES WITH INITIALS HBE
   (4) RCAF SPECIAL 1602 30 JULY MONTREAL, MAGUIRE, ANDREWS
   (5) MONTREAL 30 JULY ANDREWS
   (6) HOLD FOR DISPOSAL INSTRUCTIONS IF LOCATED
FOUND BAGGAGE MESSAGE (TROBAG)

1. FORMAT
   ADDRESSOR
   ADDRESSEE
   (1) TROBAG
   (2) Baggage TAG Number(s) and/or Owner Identification Marks.
   (3) Colour, Number of pieces by type, any other brief descriptions that may facilitate identifications.
   (4) Location of found baggage.
   (5) Other information.

2. EXPLANATION
   (1) The body of the message is to begin with 'TROBAG' which is short for 'Found Baggage'.
   (2) Owner identification marks may include: name, rank, serial number, parent unit or base, other markings.
   (4) Point at which the baggage is found and held.
   (5) Any other pertinent information.

3. EXAMPLE
   FROM: AIR TRANSPORT COMMAND HE RCAF TRENTON ONTARIO
   TO : MATS FOUND BAGGAGE CENTER SCOT TAFB ILLINOIS
   (1) TROBAG
   (2) TAG 67321 JONES SGT USAF NO OTHER
   (3) ONE BLUE SUITCASE WITH INITIALS CDJ
   (4) MONTREAL
   (5) NIL
APPENDIX Q

CENTO STANAG 2159
IDENTIFICATION OF MOVEMENTS PERSONNEL AND/offices

DETAILS OF AGREEMENT
IDENTIFICATION OF MOVEMENTS PERSONNEL AND OFFICES

AGREEMENT
1. The armed forces of CENTO nations agree to use the methods set out in Parts I and II below, identifying:
   a. Movement Control Personnel.
   b. Movement Planning and Control Agencies where these are not an integral part of a superior headquarters.

PART I—ARMBANDS FOR MOVEMENT CONTROL PERSONNEL
2. Distinguishing armbands shall be used to identify all movement control personnel who come into personal contact with forces being moved by road, rail, air, or any other agency.

   NOTE: This does not refer to personal posted on the routes solely to assist the flow of road traffic proper; such personnel wear white cuffs (STANAG 2025, paragraph 23).

3. It is agreed that the armband will be red, approximately 16½ inches (42 cm) long and 3½ inches (9 cm) wide, with a yellow wheel with eight spokes, 3 inches (7.5 cm) in diameter. It will normally be fastened by four hooks or dome fasteners, 1 inch (2.5 cm) apart.

4. The standard armband will be worn on duty in accordance with the uniform regulations of the country concerned but in such a way that the wheel can be clearly seen.

   NOTE: Staff officers may wear normal staff armbands if that is the usual practice of the countries concerned.

PART II—IDENTIFICATION OF MOVEMENTS AND TRANSPORT AGENCIES AND OF SERVICES RESPONSIBLE FOR ROAD TRAFFIC CONTROL
5. Standards sign shall be used to identify movement planning and control agencies where these are not an integral part of a superior headquarters. Those agencies which are part of a superior headquarters shall be identified in accordance with STANAG 2035.

6. It is agreed that:
   a. The signs will conform to the procedures laid down in STANAG 2012. They will be rectangular in shape, the longest sides being vertical and the symbols will be painted white on a black background.
b. The signs will display the following:

(1) The symbols laid down in STANAG 2019, or, if no appropriate symbol can be found in STANAG 2019; an eight spoked wheel, with additional national distinguishing symbols (STANAG 2027) as required.

(2) The national distinguishing letters in accordance with STANAG 1059.

(3) The direction and/or distance to the agency concerned, if necessary.

7. Examples are given in Annex A.

IMPLEMENTATION OF THE AGREEMENT

8. This STANAG will be considered to have been implemented when the necessary orders/instructions, to adopt the methods of identification described in this Agreement, have been issued to the forces concerned.
AGENCIES FOR WHICH THERE IS AN AGREED
CENTO CONVENTIONAL SIGN IN STANAG 2019

No. 4 Traffic Post of the 2nd Turkish Division at 1 km to the right.

AGENCIES FOR WHICH THERE IS NO AGREED
CENTO CONVENTIONAL SIGN IN STANAG 2019

Local Transport Office (IRAN) (In Communications Zone) - Straight ahead at 100 m

Movement Control Office (British)

Joint Liaison Post (IRAN/PAKISTAN)

NOTE: Lettering and diagrams are shown in white on a black background.

Figure Q-1. Annex A to CENTO STANAG 2159.
APPENDIX R

SEASTAG 3093
REQUEST FORM FOR AIR TRANSPORT

SEASTAG No. 3093
Navy/Army/Air

DETAILS OF AGREEMENT
REQUEST FORM FOR AIR TRANSPORT

Annexes: A. Air Transport Request Message (SERAT)
B. Air Transport Accept/Refuse Message (TRANSAR)

SEATO AIR TRANSPORT REQUEST AND ANSWER TO AIR TRANSPORT REQUEST (SERAT AND TRANSAR)

Agreement

Participants agree to use the two message formast, "SERAT" and "TRANSAR" as set out in Annexes A and B, for requests, and acceptance/refusal of requests for air transport.
AIR TRANSPORT REQUEST MESSAGE (SERAT)

1. Purpose. This is the message whereby a unit or formation can request air transport for:
   a. Carriage of troops.
   b. Carriage of cargo.
   c. Aeromedical evacuation.
      (See Note (1))

2. Format and Content
   USE STANDARD MESSAGE FORM HEADING (See Notes (2) and (3))
   SERAT Will be the first word of the message (See Note (4))
   REQUEST NO. (See Note (5))

FIRST CARRIAGE OF TROOPS (para la)
   A. No. of troops and total weight (See Note (6)).
   B. Pick-up point; to include Grid Ref/Identification/ Nickname.
   C. Delivery point: to include Grid Ref/Identification/Nickname.
   D. Method of delivery preferred (stating reasons).
   E. If delivery point is an airstrip what are restrictions.
   F. If delivery point is a Drop Zone (DZ), direction of run-in, recommended dimensions of DZ and code identifying letter of impact point.
   G. If delivery by helicopter number of LPs within LS.
   H. Remarks (See Note (7)).

SECOND CARRIAGE OF CARGO (para lb)
   A. Total weight to be lifted (See Note (8)).
   B. Outline of load (See Note (9)).
   C. Weight and dimensions of largest single item and of each type of vehicle.
   D. Pick-up point giving Grid Ref/Identification/Nickname.
   E. Delivery point giving Grid Ref/Identification/Nickname.
   F. Method of delivery preferred (stating reasons).
   G. If delivery point is an airstrip any restrictions.
   H. If delivery point is a Drop Zone (DZ), direction of run-in, recommended dimensions of DZ, and code identifying letter of impact point.
   J. If delivery by helicopter, number of LPs within LS.
   K. Remarks. Special instructions regarding loading/unloading e.g. external/internal, pallet/net etc.

THIRD, AEROMEDICAL EVACUATION (para 1c)
   A. No. of stretcher case
   B. No. of sitting cases
      (See Note (10))
   C. Nick-up point giving Grid Ref/Identification/Nickname.
   D. Remarks. (Doctor available—any other medical instructions)
FOURTH. TIMING (ZULU)
A. No move before date/time.
B. Earliest delivery. Date/time.
C. Latest delivery. Date/time (after which lift not required or un-
acceptable).

FIFTH. COMMUNICATIONS (See Note (11))
A. Frequency. (VHF/UHF/beacon).
B. Callsign of LS/DZ/airstrip.
C. Remarks. Special instructions (e.g. colour of smoke etc.).

SIXTH. SPECIAL INSTRUCTIONS
Any instructions not covered in the FIRST to FIFTH paragraphs
above.

NOTES:
(1) Procedure
The message is passed to the tasking agency either through command
channels or the appropriate tactical support net.
(2) Precedence
Immediate requests should normally be given the precedence of
OPERATIONAL IMMEDIATE. For preplanned requests—as required.
(3) Security Classification
Normally RESTRICTED or higher classification, but in an emergency
it may be sent in clear.
(4) All underlined paragraphs of the message are to be completed by
the originator but sub paragraphs (e.g. A., B, C etc.) only as applicable.
When a paragraph is NOT applicable the word NIL must be used.
(5) Request Number
The request letter and number group will identify the requesting
formation and the serial number of its request, identifying letters and
blocks of numbers will be allotted to formations by the senior formation
headquarters in the theatre. Whenever possible this request number
should be used as the task/mission number.
(6) Weight of Troops
Nations will vary in the calculated estimation of troop weights.
(7) Remarks
This paragraph should be used if it is necessary to amplify the reasons
for the method of delivery preferred to assist the staffs in meeting this
request.
(8) Cargo Weights
Total weight of cargo to be lifted must be completed by the requesting
unit/formation.
(9) Outline of Load
Details of loads by type should be given including dangerous cargo.
(10) Categorization of Patients
The categorization of patients will be in accordance with agreed inter-
national regulations.
(11) Communications
Frequencies are not to be transmitted in plain language unless emer-
gency conditions render it essential. Previously allocated circuit designators
are to be used.
AIR TRANSPORT ACCEPT/REFUSE MESSAGE (TRANSAR)

1. **Purpose.** The message whereby the air transport tasking agency informs a unit/formation of the acceptance or refusal of an air transport request.

2. **Format and Content**

   **USE STANDARD MESSAGE FORM HEADING** (See Notes (1), (2) and (3))

   TRANSAR—Always start of message (See Note (4)).

   REQUEST NO. The request number of the SERAT message should be used.

   **ACCEPTED OR REFUSED**

   Giving the reasons for refusal and any alternative offered.

   A. **Estimated time of arrival/P Hour** (See Note (5)).

   B. Mission number allotted by the taking agency; (whenever possible should be the same as the request number).

   C. Callsign of aircraft (or formation leader).

   D. **Method of delivery** (decided by tasking agency and includes numbers, type and payload of each aircraft).

   E. **Special instructions.** (Should include any differences in direction of run in/signals/navigation/lighting aids to those requested in the SERAT).

**NOTES:**

(1) **Precedence**

   Normally up to PRIORITY depending on tactical urgency, and delays on communication circuits, but higher precedence in case of refusal or alteration.

(2) **Message Instructions**

   Insert command channel or tactical support net whichever is appropriate.

(3) **Security Classification**

   As applicable. If speed is required send UNCLAS but omit details of aircraft.

(4) All underlined elements of the message are to be completed by the originator but sub paragraphs (e.g. A, B, C, etc.) only as applicable. When a paragraph is not applicable the word NIL must be used.

(5) If the ETA is NOT known, it should be sent later. The TRANSAR message is not to be delayed on this account. Where more than one time is involved these must be related to the appropriate paragraph of the SERAT.
<table>
<thead>
<tr>
<th>Paragraphs</th>
<th>Page</th>
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<td>Air traffic coordinating offices</td>
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<td>Movements:</td>
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<td>Automated procedures, current and interim</td>
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<td>Freight traffic routing</td>
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<td>Communications backup system</td>
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By Order of the Secretary of the Army:

Official:

KENNETH G. WICKHAM,
Major General, United States Army,
The Adjutant General.

Distribution:
To be distributed in accordance with DA Form 12-11 requirements for Transportation Movements and Service in Field Army.

W. C. WESTMORELAND,
General, United States Army,
Chief of Staff.
**SPECIMEN ROAD MOVEMENT TABLE**  
(A guide only, will need adjustment to suit individual cases)

**General Data:**  
1. Average Speed  
2. Traffic Density  
3. Hails

<table>
<thead>
<tr>
<th>Movement Number or Identification Serial Number</th>
<th>Date</th>
<th>Unit/Formation</th>
<th>No. of Vehicles</th>
<th>Load Class of Heaviest Vehicles</th>
<th>From</th>
<th>To</th>
<th>Route to Start Point (See Note 7)</th>
<th>Critical Points</th>
<th>Route from Release Point (See Note 7)</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
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<td>(b)</td>
<td>(c)</td>
<td>(d)</td>
<td>(e)</td>
<td>(f)</td>
<td>(g)</td>
<td>(h)</td>
<td>(k) (l) (m)</td>
<td>(n)</td>
<td>(o)</td>
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See NOTE 5

**Acknowledgement**

**Distribution:**  

**Authentication:**

**NOTES:**  
1. Only the minimum number of headings above should be used. Any information which is common to two or more movement numbers or identification serial numbers should be included under the 'data' paragraphs.
2. As the table may be issued to personnel concerned with control of traffic, the security aspect must be remembered. It may not be desirable to include dates or locations.
3. If the table is issued by itself, and not as an annex to a more detailed order, the table must be signed or authenticated in the normal way.
4. 'Critical Point' is defined as 'a selected point along a route used for reference in giving instructions. It includes start points, release points and other points along a route where interference with movement may occur or where timings are critical'.
5. This will be the number which is used to identify a column (or element of column) during the whole of the movement (see STANAG 2154, paras. 8 & 9).
6. In the case of an annex having the same distribution as an operation order it will not be necessary to include the headings and ending as shown on this page.
7. Definitions of these terms will be found in STANAG 2154 (paras. 17 and 18).

*Figure G.1. Annex B to the details of agreement of STANAG 2011.*