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Role of the Scout Platoon

- The scout platoon's mission is to conduct reconnaissance and security operations to answer the commander's information requirements and provide early warning to the protected force.
- Specifically, it conducts tasks to satisfy the commander's critical information requirements (CCIRs) before the latest time information is of value (LTIOV) expires.
- Commanders specifically assign the scout platoon missions for any given operation based on known and projected friendly operations, the range of threats, and their understanding of potential areas of operations (AO). Scouts then confirm or deny commanders' assumptions.
- Scout platoons conduct reconnaissance and security missions in close contact with enemy organizations and civilian populations to allow maneuver commanders to make informed decisions that seize, retain, and exploit the initiative and obtain a position of relative advantage.
- The execution of reconnaissance and security missions provides supported units information, time, and space to adjust to the changing situation, react to opportunities and danger, and enable commanders to transition to future operations.



Commander's Reconnaissance Guidance

- Commanders provide clear reconnaissance guidance that offers both freedom of action to
 develop the situation as well as adequate direction to ensure that their organic Cavalry
 organization can accomplish stated reconnaissance objectives within the required timeline.
 The commander's reconnaissance and security planning guidance provides a clear
 understanding of the Cavalry organization's task, purpose, and objective. Reconnaissance and
 security guidance explains focus, level of detail required, levels of covertness, and guidelines
 for engagement, disengagement, and displacement of the organization.
- The commander's reconnaissance guidance (CRG) enables disciplined initiative and enables the Scout Platoon and subordinate elements to act. The Scout Platoon Leader must take the CRG issued at the Troop OPORD and break down that guidance to their individual sections and squads.
- Focus defines the Scout Platoon's area of emphasis and can consist of one of four categories (threat, infrastructure, terrain and weather effects, and society). Providing focus enables the Scout Platoon to develop their scheme of maneuver and operate within the higher commander's information needs. An example of focus would be in an ABCT Cavalry Squadron conducting a zone reconnaissance, the lead Platoon is threat focused in order to provide freedom of maneuver for the trail Platoon that is terrain focused.
- The reconnaissance focus must be further refined by the Commander in to Reconnaissance Objectives. A Reconnaissance Objective is a terrain feature, geographic area, or an enemy force about which the commander wants to obtain additional information. The Reconnaissance Objective must directly support the end state defined in the Commander's Intent.
- Tempo of Reconnaissance refers to the level of detail and the level of covertness required by the Scout Platoon to best accomplish their mission. Tempo is described by four terms; rapid, deliberate, stealthy, and forceful. Rapid and Deliberate are levels of detail and are mutually exclusive, meaning a Scout Platoon cannot be rapid and deliberate at the same time. Stealthy and forceful are mutually exclusive levels of covertness, meaning a Scout Platoon cannot be stealthy and forceful at the same time. NOTE: The Tempo of a Reconnaissance operation can change by phase. The Tempo issued in the OPORD covers the breadth of the mission and not necessarily every part of the operation. When the Scout Platoon leader issues his Reconnaissance guidance, the tempo is always issued as two words. There the four distinct terms associated with reconnaissance tempo comprise four possible combinations.
- Rapid tempo indicates that the level of detail for the reconnaissance operation is limited to a
 certain number of prescribed tasks or PIR. Rapid tempo has nothing to do with the speed with
 which the operation is conducted. An example of this would be a rapid route reconnaissance
 in which the commander is only concerned with the ability of a bridge to support follow-on
 forces. Given this guidance, the Scout Platoon would conduct an overall rapid reconnaissance
 of the route; however, they would transition to deliberate at the NAI associated with the
 bridge and answer all necessary questions from the Commander.
- Deliberate tempo implies that all tasks of the mission must be accomplished to ensure overall
 mission success. An example of this would be when an organization is new to its area of
 operations and possesses limited information about a main route that it wishes to utilize as a
 main supply route for future operations. Given this scenario, the Scout Platoon would be
 ordered to conduct a deliberate route reconnaissance of the MSR, following all of the critical
 tasks associated with a route reconnaissance and creating a route reconnaissance overlay for
 the commander.



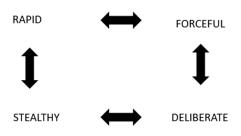
Commander's Reconnaissance Guidance

- Stealthy tempo emphasizes avoiding detection and generally consists of restrictive
 engagement criteria. Stealthy reconnaissance takes more time and utilizes dismounted
 reconnaissance methods to maximize the use of cover and concealment to reduce friendly
 signatures. Stealthy reconnaissance is utilized when time is available, detailed reconnaissance
 is required, enemy threat contact is likely, or when terrain restricts the use of mounted
 reconnaissance elements.
- Forceful tempo develops the situation rapidly by employing ground and air assets to develop
 the situation rapidly and "fight for information." Forceful reconnaissance relies upon the use
 of standoff weapons and optics to rapidly seize the initiative and answer the Commander's
 information needs. Forceful reconnaissance is used when time is limited, detailed information
 is not required, terrain is open, or when dismounted reconnaissance elements cannot answer
 the information requirements in the time allotted.
- Engagement Criteria are protocols that specify those circumstances for initiating engagement with an enemy force. They can be either restrictive or permissive. The Scout Platoon leader must define the size and type of force he expects his subordinate units to engage and avoid. This enables the planning of the use of direct and indirect fires. Engagement criteria must be extremely precise so as to avoid confusion. Example, if the Engagement Criteria for 1st Platoon issued by the Commander (a Scout Platoon in a SBCT Cavalry Squadron) is 9 or fewer dismounts. 2 or fewer BRDM's or 1 BMP, the Scout Platoon leader, operating in a 2 section concept can break down the engagement criteria to the section level as follows: 5 or fewer dismounts, 1 BRDM, only engage the BMP with dismounted Anti-Tank weapons systems at less than 1000M. NOTE: The Scout PLT must develop a PACE plan for initiating contact with the enemy. For example, if the Scout PLT is to destroy an enemy BMP as part of their scheme of maneuver, the Primary means to destroy the BMP may be a priority fires target from the Artillery Battalion. An alternate means to destroy the BMP may be using the Troop Mortars. A contingency may be direct fire from an Anti-Tank weapons system; and an emergency means may be a dismounted Anti-Tank weapons system. Engagement criteria needs to be thought of as the size of the enemy element that can be rapidly destroyed by the organic firepower on hand in the Scout Platoon. This enables the Scout Platoon to avoid becoming decisively engaged and retain the freedom of maneuver.
- Disengagement Criteria are protocols that specify those circumstance of avoiding contact or when to disengage from a fight so as to avoid becoming decisively engaged and retain the freedom of maneuver. If a Scout Platoon does not understand or violates its disengagement criteria, it will likely become decisively engaged and have to fight the battle to its conclusion. Using the example from engagement criteria listed above; if an individual section encounters 3 BMP's, they are to disengage. While the section may possess enough Anti-Tank weapon systems to gain a small tactical victory, the chances of becoming decisively engaged and failing to orient on the reconnaissance objective are too great. In this scenario, the Scout Section would seek to avoid a direct fire engagement and move, if necessary, to an alternate location to maintain threat contact while avoiding engagement.
- Displacement Criteria are triggers for a planned withdrawal, passage of lines, or a reconnaissance handover between units. Displacement criteria are conditions that are either event driven (example, associated PIR being met), time driven (example, latest time information of value trigger is met), or threat driven (example, identification of enemy reserve).



Commander's Reconnaissance Guidance

COMMANDER'S RECONNAISSANCE GUIDANCE - TEMPO



NOTE: There are four different Tempo's that can be given to a Scout PLT: Rapid and Stealthy Rapid and Forceful Deliberate and Stealthy Deliberate and Forceful

Reconnaissance missions

Zone reconnaissance is a form of reconnaissance that involves a directed effort to obtain detailed information on all routes, obstacles, terrain, and enemy forces within a zone defined by boundaries. Commanders assign a zone reconnaissance when the enemy situation is vague or when information related to terrain, infrastructure, or society is limited. The level of detail required during a zone reconnaissance makes these operations a deliberate and time-consuming process. The commander must work to balance available time with critical collection requirements to ensure that they provide the necessary information for their higher commander.

SLC

- Find and report all enemy forces within the zone.
- Based on engagement criteria, clear all enemy forces in the designated AO within the capability of the unit conducting reconnaissance.
- Determine the trafficability of all terrain in the zone, including built-up areas.
- Locate and determine the extent of all contaminated areas in the zone.
- Inspect and classify all bridges within the zone.
- Locate fords or crossing sites within the zone.
- Inspect and classify all overpasses, underpasses, and culverts.
- Locate and clear all mines, obstacles, and barriers in the zone (within capability).
- Report reconnaissance information.
- Reconnoiter all terrain within the zone.
- · Reconnoiter specific terrain within the zone.
- Locate bypass around built-up area, obstacles, and contaminated areas

Area reconnaissance is a form of reconnaissance that focuses on obtaining detailed information about the terrain, enemy or civilian activity within a prescribed area. An area may include a town, a ridgeline, woods, an airhead, an installation, or any other critical operational feature, basically just an NAI. The area may consist of a single structure, such as a bridge or a building. The primary difference between an area reconnaissance and a zone reconnaissance is that in an area reconnaissance, units conducting the reconnaissance, first move to the area in which the reconnaissance will take place. In a zone reconnaissance, the units conducting the reconnaissance start from a line of departure. Areas are smaller than zones, typically takes less time to complete, and not usually contiguous to other friendly areas targeted for reconnaissance. There are two ways of conducting area reconnaissance, by maneuvering elements through the area or by establishing observation posts within or external to the area of interest. Tasks for area reconnaissance are the same as for zone reconnaissance

SO

Special reconnaissance is characterized as reconnaissance and surveillance actions conducted as a special operation in hostile, denied, or politically sensitive environments to collect or verify information of strategic or operational significance employing military capabilities not normally found in conventional forces

A reconnaissance in force is a deliberate combat operation designed to discover or test the enemy's strength, dispositions, and reactions or to obtain other information. Squadron-size task forces or larger organizations usually conduct a reconnaissance in force. A commander assigns a reconnaissance in force when the enemy is operating within an area and the commander cannot obtain adequate intelligence by any other means. A reconnaissance in force is an aggressive reconnaissance, conducted as an offensive operation with clearly stated reconnaissance objectives. The overall goal of a reconnaissance in force is to identify and exploit enemy weaknesses. It differs from other reconnaissance operations as it is normally only to gain information about the enemy and not the terrain. The commander plans for both the retrograde or reinforcement of the force, in case it encounters superior enemy forces, and for the exploitation of its success in advance. During a reconnaissance in force, the subordinate elements of the Cavalry unit conduct zone, area, and route reconnaissance missions.

- Penetrate the enemy's security area and determine its size and depth.
- Determine the location and disposition of enemy forces.
- Attack enemy positions and attempt to force the enemy to react by using local reserves or major counterattack forces, employing fires, adjusting positions, and employing specific weapon systems.
- Determine weaknesses in the enemy's disposition for exploitation.
- Locate obstacles and create lanes as specified.
- Enter AOs in complex terrain not previously occupied by friendly forces, such as urban environments.



Reconnaissance missions

Route reconnaissance is a directed effort to obtain detailed information of a specified route and all terrain from which the enemy could influence movement along that route. It provides new or updated information on route conditions, such as obstacles, bridge classifications, enemy, and civilian activity along the route. The commander normally assigns this mission when wanting to use a specific route for friendly movement.

- Find, report, and—based on engagement criteria—clear within capabilities all enemy forces that can influence movement along the route.
- Reconnoiter and determine the trafficability of the route.
- Reconnoiter all terrain the enemy can use to affect movement along the route.
- Reconnoiter all built-up areas along route.
- Reconnoiter all lateral routes.
- Inspect and classify all bridges within the area.
- Reconnoiter defiles along the route. Clear them of enemy and obstacles (within capability), or locate a bypass
- Locate fords or crossing sites near all bridges on the route.
- Inspect and classify all overpasses, underpasses, and culverts.
- Locate and clear all mines, obstacles, and barriers on the route within capability.
- Locate bypasses around built-up areas, obstacles, and contaminated areas.
- Report route information.



Screen

- Screen is a security task that primarily provides early warning to the protected force.
- A screening troop is a security element, which primarily observes, identifies, and reports information related to a commander's PIR while aggressively executing counter-reconnaissance, which impedes, harasses, or destroys the enemy's reconnaissance effort.
- Although it provides the least amount of protection of any security mission, a screen is appropriate when operations have created extended flanks, when gaps between forces exist that are not secured in force, or when early warning is needed over gaps that are not considered critical enough to require security in greater strength.
- Troops screen a stationary force to the front, flanks, and rear of the main body. Troops screen a moving force to the flanks or rear.
- Screening operations are not performed forward of a moving force. Cavalry troops conduct a zone reconnaissance, reconnaissance in force, or are part of a guard forward of the moving force.
- Cavalry troop commanders plan a series of observation posts, augmented with patrols to ensure surveillance of dead space to establish a screen.
- The 3 primary methods to move IOT occupy a screen are zone reconnaissance, infiltration, and tactical road march.

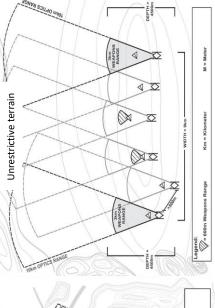


Screen

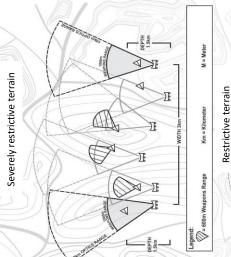
- Critical tasks of a screen include:
 - Allow no enemy ground element to pass through the screen undetected and unreported.
 - Maintain continuous surveillance of all avenues of approach that affect the main body's mission.
 - Conduct counter-reconnaissance to destroy, defeat, or disrupt all enemy reconnaissance elements, within capabilities and according to engagement criteria.
 - When facing an echeloned enemy force, locate and identify the lead elements that indicate the enemy's main attack, as prescribed in the enemy's order of battle based upon IPB.
 - Determine the direction of enemy movement, maintain contact, and report threat activities even while displacing.
 - Impede and harass the enemy within capabilities without becoming decisively engaged and while displacing to provide the protected force commander with additional time and maneuver space.
 - Detect and report all enemy elements attempting to pass through the screen, both ground and aerial, to provide the protected force commander early warning of enemy activities.

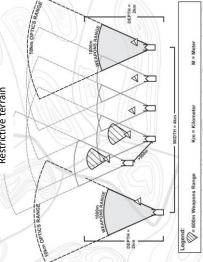
SLC SOP

Screen operating distance diagrams



Note* these diagrams are just general rules of thumb, under perfect conditions, with 0 mission context, 0 eng/diseng/disp criteria context, and no information on the enemy. The screens you execute, will probably never look exactly as depicted.







Screen in depth

- Depth is critical in a screen. It allows for RHO of threat contact from one element to another without displacing.
- Troops plan screens in-depth. Depth prevents the threat from easily identifying and penetrating the screen, prevents gaps from occurring when observation posts displace, and facilitates the destruction of enemy reconnaissance elements without compromising critical operations
- Depth is achieved by positioning observations posts, UAS, and attached units between the front line trace and rear boundary of the security force. Depth is used to achieve the following results:
 - Prevent the threat from easily identifying and penetrating the screen.
 - Prevent gaps from displaced or destroyed outpost.
 - Facilitate the destruction of enemy reconnaissance elements without compromising critical observation posts.
 - Maintain contact with enemy elements without compromising OPs
 - *Note*. When the term screen line is used, it describes only the trace along which security provides, not the linear positioning of assets.
- Dismount OPs need to be deployed forward of mounted OPs within supporting distance, IOT provide early warning to the vehicles. This provides depth within a vehicle squad. Each vehicle squad should repeat this same process, going from the front line trace (LOA) all the way back to the phase line that the TRP CO dictates.
- Leaders need to conduct time distance analysis for how long an enemy vehicle can travel from where the dismount OP is, to where the vehicle is. This amount of time will determine how long the mounted OP has IOT react to the contact.
- The dismount OP needs to take all precautions to remain undetected.
- The dismount OP has the ability to move along with and shadow the enemy, IOT maintain visual contact for as long as possible.
- The PL needs to exercise an intelligent thought process, as far as where he is going to emplace OPs. The OPs should be over watching areas where the enemy needs to make a decision for their direction of travel.
- EA DEV should be conducted for every single static position. If there is a dedicated EA where the PL or TRP CO wants to kill the enemy, then the PL needs to task org the right weapon systems (JAV/TOW/MGS/ATGM/50 CAL/FIRES TGTs) to support that EA.
- Obstacles should be emplaced on the routes that we don't want the enemy to travel on. The obstacles will be over watched, and have fires targets templated on them IOT deter enemy trying to breach them.



- In this scenario, 1st PLT has conducted a zone reconnaissance to a screen from PL red to the LOA. The reconnaissance focus
 was terrain and infrastructure IOT ID friendly BPs and EAs, and also determine the most feasible RTEs that the enemy, to the
 north; will take to their objective to the SW. This required the PLT to perform AREA recon for the BPs, and RTE recon on ALL
 RTEs within the zone. The CO's intent for the screen is to conduct counter reconnaissance by destroying the enemy's combat
 reconnaissance patrol.
- After conducting the zone reconnaissance, the PLT has determined that RTE Scorpion is the most feasible for the enemy. The
 terrain off of the road is severely restricted by forests and draws, thus canalizing all mounted elements to the roads. The PLT
 employs obstacles (mines, c-wire, cratering charges, abatises) on the other RTEs to ensure that the enemy takes RTE Scorpion.
 These obstacles will be over watched by dismounts (they can displace from their static OPs to regain contact on the obstacle)
 IOT CFF on enemy attempting to bypass or breach.
- The ENGAGEMENT CRITERIA for all elements north of PL White is IDF only if the enemy is trying to bypass or breach obstacles. Those elements need to take all precautions not to be compromised. They will have detailed exfil routes to link up with the platoon should compromise happen. If the enemy takes RTE Scorpion, there should be no direct fire engagement until they eventually enter EA BRUFACE.
- The EA has the 3 vehicles which have the most casualty producing weapons on them plus dismounts with javelins. DFCM for the EA needs to be well thought out, and positions of friendlies on the screen need to be verified.
- During the zone recon the PLT ID'd alternate BPs and EAs to maneuver to, should the enemy somehow bypass or breach an
 obstacle on the other RTEs.



Stryker



Dismount OP



Engagement Area Development

- EA dev goes hand in hand with IPB, and should always occur in some aspect during the execution of R&S operations. There should always be a plan to destroy templated enemy, while avoiding fratricide with DFCM.
- The engagement area is where we intend to engage and destroy an enemy force using the massed fires of all available weapons. The platoon combines natural and man-made obstacles to canalize the attacking force into engagement area.
- The success of engagements depends on how the leader can integrate the obstacle plan, indirect fire plan, and direct fire plan within the engagement area to achieve the platoon's tactical purposes.
- Engagement area development resembles a drill, and the platoon leader and his subordinate leaders use an orderly, standard set of procedures. The steps of engagement area development are not a rigid sequential process.
- Some steps may occur simultaneously to ensure the synergy of combined arms. Beginning with evaluation of METT-TC, the development process -
 - IDs all likely enemy avenues of approach
 - Determines likely enemy SoM
 - Determines where to kill enemy
 - Plans and integrates obstacles
 - Emplaces weapon systems
 - Plans and integrates IDF
 - Rehearses the execution of operations in EA

SOP

Passage of lines

SLC

- Passage of lines is an operation in which a force moves forward or rearward through another force's combat positions with the intention of moving into or out of contact with the enemy. A passage may be designated as a forward passage of lines (FPOL) or rearward passage of lines (RPOL).
- A passage of lines occurs under two conditions: FPOLS and RPOLs. FPOLs occur when a unit passes through another unit's positions while moving toward the enemy. RPOLs occur when a unit passes through another unit's positions while moving away from the enemy. A unit may participate in a passage of lines as either the passing or stationary force.
- A commander conducts a passage of lines to continue an attack or conduct a counterattack, retrograde security or main battle forces, and any time one unit cannot bypass another unit's position. The conduct of a passage of lines potentially involves close combat. It involves transferring the responsibility for an area of operations (AO) between two commanders. That transfer of authority usually occurs when roughly twothirds of the passing force has moved through the passage point. If not directed by higher authority, the unit commanders determine—by mutual agreement—the time to pass command.
- RHOs or BHOs occur during a passage of lines, because there is a transfer of responsibility between units for the AO. There are three key elements in a passage of lines: the stationary unit, the passing unit, and the common commander.
- Conditions and criteria for conducting a passage of lines are normally found in the Commanders Reconnaissance or Security guidance for displacement criteria, located in the Troop Operations Order, Fragmentary Order, or Warning Order. The HQ directing the passage of lines is responsible for determining when the passage starts and finishes
- Control measures associated with a passage of lines are generally restrictive to prevent friendly fire incidents. At a minimum, they include the AO, assembly areas (AAs), attack positions, BHL, RHL, contact points, passage points, passage lanes, routes, gaps, phase lines, and recognition signals. The headquarters directing the passage designates or recommends contact points, passage lanes, AAs, routes, and start and end times for the passage. The commander may also use start points, release points, fire support coordination measures, such as coordinated fire lines (CFLs), and other control measures as necessary to conduct this task. Unless the higher headquarters of the two units establishes the necessary graphic control measures, the stationary unit establishes them for the passage. However, the stationary unit commander coordinates them with the passing unit commander.
- The stationary unit establishes these measures because it controls the terrain, knows where the obstacles are, and knows the tactical plan. If the control measures dictated by the higher headquarters are not sufficient because they do not contain enough passage points, lanes, etc., the two units can agree to add the necessary measures.
- A forward passing unit's order of march is generally reconnaissance and security elements first. The ground combat force moves next, followed by functional and multifunctional support and sustainment units. The passing unit reverses this order of march in a rearward passage of lines.



Passage of lines (passing unit tasks)

- Establishing communications immediately, entering the command, intelligence, and FS nets of the stationary unit
- Collocating a unit or vehicle with the tactical command post (TAC) CP or main CP of the stationary unit as soon as possible to enhance communication and unity of effort
- Continuously reporting to the stationary unit during a rearward passage the location, size, composition, and current activity of all threat forces. If the threat is attacking, the passing unit reports the direction of movement, movement formation, and estimated rate of advance. If the threat is defending, the passing unit reports threat locations, orientation, composition, engagement area, reserves (if known), obstacle systems, and flanks
- Continuously reporting to the stationary unit the location, size, and activity of all parent unit elements, including augmentation, sustainment, and mission command assets
- Coordinating with the stationary unit based upon the current dispositions of the parent unit to determine contact points for subordinate elements (such as reconnaissance sections) to synchronize handover and passage of lines with representatives of the stationary unit. Once contact points are determined, the passing unit leader sends a FRAGORD to all elements specifying the location for the passage with the stationary unit. The passing unit confirms recognition signals used during passage
- Ensuring that subordinate elements acknowledge where to coordinate the passage and that representatives are dispatched to the assigned contact points. At the contact points, the representatives confirm recognition signals and exchange required information with their counterparts from the stationary unit
- Maintaining visual contact with all threat units in a rearward passage, conducting movement back to the RHL/BHL, and avoiding decisive engagement
- Displaying correct recognition signals and using the correct challenge and password as specified in the SOI during the passage
- Maintaining proper weapons orientation



Passage of lines (stationary unit tasks)

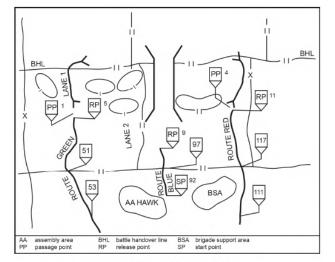
- Establishing communications, coordinating necessary contact points, and directing the passing unit to the contact points based on current dispositions of the designated units
- Exchanging fire support plans; this also includes target lists and FS contact frequencies
- Guaranteeing contact points are manned and secured, and that passing elements have established personal communication with their representatives
- Ensuring representatives at the contact points assign each passing element a passage point into the AO, and a route that extends from the passage points to the rear boundary or assembly area (in a rearward passage) or to the attack position (in a forward passage)
- Exchanging required information, including FBCB2, with the passing unit as outlined in their unit SOP
- Positioning elements to overwatch the RHL/BHL where they have the best possible observation of threat avenues of approach, adjusting as necessary during limited visibility
- Ensuring routes through an obstacle system are clearly marked and physically controlled by guides, or escorts are provided to the passing unit
- Guaranteeing all routes of withdrawal obligated to the passing unit are unobstructed and facilitate rapid movement to the rearward passage
- Ensuring obligated routes of advance, attack positions, and routes to the RHL/BHL are clear and facilitate rapid movement (forward passage)



Passage of lines graphic control measures

- Reconnaissance/battle handover line. The RHL/BHL is established by the common leader of the unit in consultation with both commanders. The stationary unit leader determines the location of the RHL/BHL and overwatches the line with direct fires.
- Fire support coordination measures. If necessary, these are established or identified.
- Contact points. These are established on identifiable terrain and are normally in the vicinity of the passage lanes. For rearward passage of lines, the contact points are established forward of the RHL/BHL. For forward passage, the contact points are established in the stationary unit's AO, rearward of the passage lanes.
- Passage points. Passage points are a specifically designated place where
 the passing units pass through the stationary unit. The location of this
 point is where the commander wants subordinate units to physically
 execute a passage of lines. In a forward passage of lines, the passage point
 marks the location where the passing unit is no longer bound by the
 restrictions placed on it by the stationary force. In a rearward passage of
 lines, the passage point marks the location where the stationary unit can
 restrict the movement and maneuver of the passing force. Between the
 contact point and the passage point, the stationary unit controls the
 passing force's movement.
- Passage lanes. The stationary unit establishes passage lanes to move the
 passing unit quickly through defending unit positions. This could include
 passing through gaps in friendly obstacles and moving near or through
 friendly engagement areas (EAs) and BPs. Lanes are restrictive and should
 be wide enough to allow the passing unit to move in a tactical formation.
 The passage lane begins at the passage point and ends at the rear of the
 stationary unit BPs. The passage is considered complete when the moving
 unit exits the lane.
- Routes. Routes are used to move the passing unit through the stationary unit. The number of routes designated varies based upon METT-TC but as a general rule, multiple lanes/routes should be planned to facilitate rapid passage of moving units and to avoid unnecessary massing of units. The stationary unit may escort or guide the passing unit along the lane/route
- Assembly area. An assembly area in the AO of the stationary unit allows the passing unit to conduct hasty reorganization and emergency sustainment actions. This assembly area is temporary in nature, and is always located behind the stationary unit (not in between the stationary unit and enemy).
- Exfiltration points. Leaders should plan infiltration points and lanes for personnel unable to complete the passage with their unit. Passing unit liaison officers may remain located with stationary unit CPs to serve as a point of contact for infiltrating personnel/equipment. Personnel who infiltrate must have some way of contacting the stationary unit before crossing into friendly territory.

Figure 5-6. Forward passage of lines



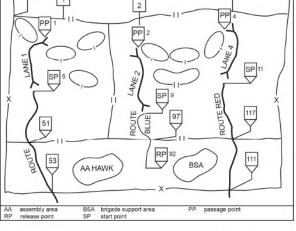


Figure 5-7. Rearward passage of lines

SLC SOP

Passage of lines GCM

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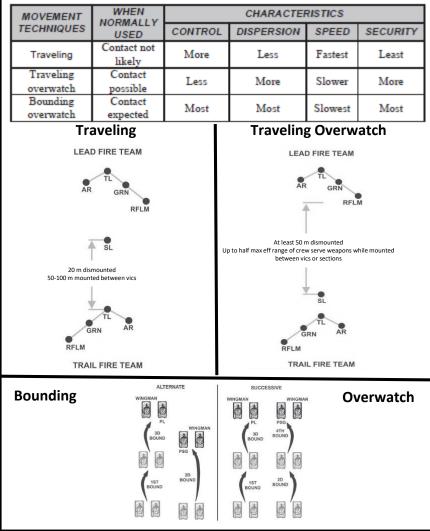


Formations and order of movement

- The Commander's Reconnaissance & Security guidance along with METT-TC conditions will dictate movement formations and movement techniques.
- If the TEMPO is STEALTHY, the implied understanding is that the Commander prioritized remaining undetected. The primary movement techniques while mounted are traveling overwatch or bounding overwatch to the next covered and concealed position OFF of the ROAD, while maximizing dismounts as much as possible to conduct reconnaissance within supporting distance of the vehicles. Stealthy reconnaissance is used when time is available, detailed reconnaissance and stealth is required, enemy forces are likely in a specific area, danger areas are encountered, and when restrictive terrain limits effectiveness of mounted reconnaissance.
- If the TEMPO is FORCEFUL, the implied understanding is that the Commander prioritized moving more aggressively in the AO instead of remaining undetected. Forceful reconnaissance is appropriate when time is limited, terrain is open, environmental conditions allow for mounted reconnaissance, and when dismounted reconnaissance cannot complete the mission within existing time constraints.
- For FORCEFUL, traveling or traveling overwatch is used until any of the forms of contact happen. Formations will change based on METT-TC conditions. This does not negate the Platoon's ability to perform local security measures such as utilizing cover/concealment or camouflage to increase our chances of survivability. Dismounts are still used within supporting range or supporting distance of the vehicles in order to develop the situation for the PL, before he commits to a COA. Scouts should not just drive/walk into an obvious enemy EA because the tempo was FORCEFUL.
- You can and should adjust the tempo in regards to the probable line of contact (PLOC) with the enemy. However once direct or indirect fire contact occurs, aggressive action must be taken within the confines of your engagement criteria.
- We will always prefer to make contact on our terms with the smallest element possible. This ensures the rest of the platoon has enough space and time to have the freedom of maneuver for the COA that the PL dictates. The only way to do this is by constantly adjusting the distance between vehicles or squads/sections, adjusting our movement formations, and adjusting our movement techniques whenever we come across METT-TC factors that forces the change.
- On the ground real time IPB should constantly be happening. The lead SL should be analyzing aspects of the terrain or enemy in front of him, and recommend changes to the movement formation or technique to the PL.



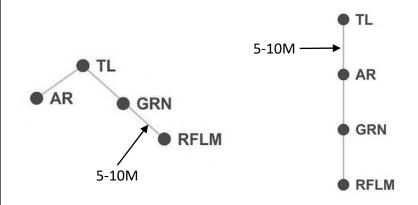
Formations and order of movement *Movement Techniques*





Formations and order of movement *<u>Dismount Team</u>*

MOVEMENT FORMATION	WHEN MOST OFTEN USED	Movement Characteristics				
		CONTROL	FLEXIBILITY	FIRE CAPABILITIES AND RESTRICTIONS	SECURITY	
Fire team wedge	Basic fire team formation	Easy	Good	Allows immediate fires in all directions	All-round	
Fire team file	Close terrain, limited visibility, dense vegetation	Easiest	Less flexible than the wedge	Allows immediate fires to the flanks, masks most fires to the rear	Least	





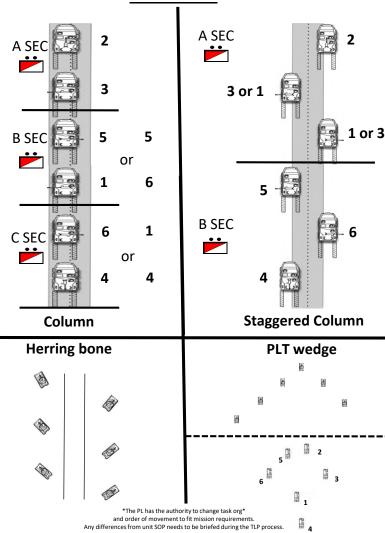
Formations and order of movement *<u>Dismount Squad/Section</u>*

	MOVEMENT FORMATION	WHEN MOST OFTEN USED	Movement Characteristics				
			CONTROL	FLEXIBILITY	FIRE CAPABILITIES AND RESTRICTIONS	SECURITY	
	Squad column	The main squad formation	Good	Aids maneuver, good dispersion laterally and in depth	Allows large volume of fire to the flanks but only limited volume to the front	All-round	
	Squad line	Fore maximum firepower to the front	Not as good as the column	Limited maneuver capability (both fire teams committed)	Allows maximum immediate fire to the front	Good to the front, little to the flank and rear	
	Squad file	Close terrain, dense vegetation, limited visibility conditions	Easiest	Most difficult formation to maneuver from	Allows immediate fire to the flanks, masks most fire to the front and rear	Least	
• TL (POINTMAN) • AR • GRN (COMPASS) • RFLM (PACE)					 TL SL (C AR GRN RFLM 	DPTIONAL)	
• SL					● SL ● TL ● AR		
GRN AR O					• GRN O TL (C • RFLM	PTIONAL) /	





Formations and order of movement *<u>Mounted</u>*





Formations and order of movement *Mounted*

Coil method / wagon wheel

Lead vehicle enters area and circles back around to the 6 o'clock position and sets. Each vehicle then staggers off the one in front of them 25-100 meters (or METT-TC) until a circle is formed. More control is afforded if you do this 1 vehicle at a time in order to ensure proper spacing and sectors of fire are enforced.

Once all vehicles are set, SLs ensure there are proper spacing, and interlocking sectors of fire between vehicles. Gunners complete range cards for their SL to proof, and PSG creates sector sketch off of the range cards.

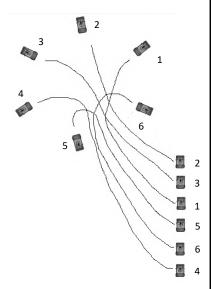
Coil method by clock position

Another common way is to divide the security positions by the hours of a clock. In this example, A sec has the 3-9 by way of 12, and B sec has the 3-9 by way of 6.

This method works easiest in a 2 section concept. Lead vehicle in A section enters area and sets the 12 o'clock. 2^{nd} vehicle in OOM sets to the left of lead, and 3^{rd} vehicle sets to the right of lead.

Bravo section will do the same thing simultaneously, facing the opposite direction.

Once all vehicles are set, SLs ensure there is proper spacing, and interlocking sectors of fire between vehicles. Gunners complete range cards for their SL to proof, and PSG creates sector sketch off of the range cards.



nand and arm signals, or adios up to rest of SQD. -ead TM (blue) ID's LDA The SQD stops short in covered and concealed and gives appropriate positions while

where they won't become and concealment, and far rail team (red) provides enough away from LDA hey are behind cover preferably with MGs. security down both directions of LDA, compromised by elements on LDA

conducting SLLS (STOP,

OOK, LISTEN, SMELL)

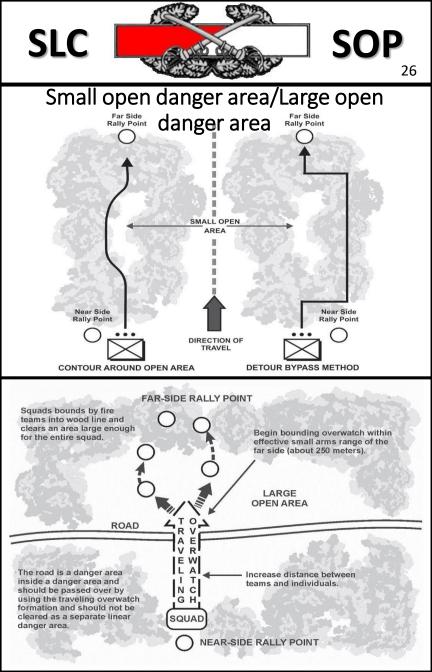
security to the far side 25eafs an area out of visual Lead TM crosses LDA in-50 meters, and clover contact with the road, ensuring it's safe and between near side secure.

'ally point with personnel, and pulls security on the Lead TM sets a far side IM leader radios up; or far side oriented down both directions of LDA. signals, to SQD LDR to send hand and arm Cross.

 Γ

eorganizes OOM, and elays to trail team to then cross in-between continues movement SQD leader accounts crossing. SQD leader ar side security, and M/W/E. SQD leader ink up at rally point or M/W/E prior to cross. Trail TM + SL set by lead TM. Far side LDA security accountability of collapses to rally point. SL gets o objective.

SQD/SEC LDA crossing





Actions on contact

Step 1 – Deploy and Report

The unit that makes initial visual contact deploys to covered terrain w/ good observation and fields of fire.

Step 2 – Evaluate and Develop the Situation

The scouts next concentrate on determining the composition and strength of the threat force. If they have not been detected and time is available, the scouts reconnoiter the threat position, emphasizing stealth, dismounted reconnaissance, and use of assets such as thermals, LLDR's, TRGRs, and SUAS.

Step 3 – Choose a COA

Once the element in contact has developed the situation and the patrol has enough information to make a decision, the patrol leader selects a COA. He ensures the COA is within the capabilities of his patrol.

Potential COAs

- Disengage from threat contact. The unit should disengage from the threat as early in the contact as possible. This will allow for continuation of the mission and reduce the chance of any loss of combat power.
- Break contact and bypass. This COA may be selected when the platoon does not have the resources to leave an element in contact and still continue to accomplish its priority reconnaissance tasks. It may also be selected when the platoon has made contact with a threat force that cannot adversely affect the mission of the platoon's higher headquarters. You won't execute this unless higher tells you to.
- □ Maintain contact and bypass. This COA is appropriate when a threat force, based on its current disposition, is not in a position to influence the patrols higher commander. An element (normally a section or squad) will be left to maintain contact while the rest of the unit continues the reconnaissance mission.
- Maintain contact to support a hasty attack. This COA is appropriate when the platoon discovers threat elements the higher commander wants to destroy, but which the scouts cannot destroy, either because they lack sufficient combat power or because they have other tasks to perform. In this situation, the platoon maintains contact by leaving a section or squad in contact. The rest of the platoon continues on to establish far-side security, monitor any changes in the threat situation, and support the hasty attack by a friendly unit.
- Attack an inferior force. If the scouts are permitted to attack a threat, they should only attack lightly armored or unarmored reconnaissance vehicles, such as motorcycles or Soviet-style BRDMs and BTRs. They should not engage more heavily armored vehicles except in self-defense.
- Establish a hasty defense. The platoon will establish a hasty defense if it cannot bypass the threat, all the sections and/or squads are fixed or suppressed, and the platoon no longer has the ability to move forward. A hasty defense will also be used when the threat executes a hasty attack. (NOTE: Without the use of indirect fires in this situation, the platoon will fail.)
- Conduct reconnaissance handover. The platoon leader will attempt to hand over responsibility for the threat element. He does this for several tactical reasons: to continue operations as directed, to regain use of all his elements, or to pass reconnaissance responsibility to another friendly element. An example of this is a BRT platoon handing over a threat element to a task force reconnaissance platoon to maintain contact
- Conduct battle handover. This COA is applicable when a reconnaissance platoon hands over responsibility for a threat force to a friendly combat element. An example of battle handover is a task force reconnaissance platoon handing over a threat element to a tank company team for destruction.

Step 4 – Execute the COA



Battle drills

Direct fire

- Immediately return fire to attempt to gain fire superiority while seeking cover and concealment, utilizing Infantry battle drill "React to direct fire contact."
- Develop the situation
 - If within engagement criteria, destroy enemy through IDF or SAF utilizing the Infantry battle drills "conduct PLT assault" or "conduct a SQD assault." If mounted, dismount personnel to clear through the objective and conduct BDA.
 - If outside of engagement criteria, temporarily break direct fire contact utilizing Infantry battle drill "Break contact", and maneuver to a position of advantage to regain visual contact. Use IDF to enable your maneuver out of contact. Prepare for RHO/BHO.

Indirect fire

- Dismounted
 - Any soldier screams "INCOMING!"
 - Soldiers immediately assume the prone position or move to immediate available cover during initial impacts.
 - Unit leader orders the unit to move to a rally point by giving direction and distance.
 - After the impacts, Soldiers move rapidly in the direction and distance to designated rally point.
 - Unit leader reports contact to higher.
- Mounted
 - Any solder screams "INCOMING!"
 - VC's repeat the alert over the radio.
 - Unit leader gives distance and direction, terrain feature, or check point for the unit to move to.
 - Personnel ensure they are in turret defilade.
 - Drivers move rapidly out of impact area to the designated rally point.
 - Unit leader reports contact to higher.
- Visual
 - Seek cover and concealment without compromising yourself.
 - Determine if contact is friendly, enemy, or civilian.
 - Report information to higher.
 - Execute COA specified in order or dictated by higher.



Battle drills

React to obstacle

- If applicable, section identifying the obstacle alerts the platoon with a contact report.
- In close direct fire contact situations, platoon takes immediate protective actions.
 - a. PL directs the platoon to deploy to a covered and concealed location.
 - b. As applicable, element in contact employs onboard smoke grenades and direct fire to obscure and suppress the enemy forces overwatching the obstacle.
- In out of contact situations (platoon identifies obstacle from a position of advantage), platoon takes immediate protective actions.
 - a. PL directs the platoon to deploy to a covered and concealed location.
 - b. Element in visual contact with obstacle establishes an overwatch position.
 - c. As applicable, employs direct fire and/or indirect fire to obscure and suppress the enemy forces overwatching the obstacle.
- PL/PSG take actions to develop the situation and report to the commander.
 - a. Sends contact report (FM or digital) to the company/troop commander.
 - b. Develops the situation by section (maneuver) to determine location, composition, and disposition of enemy forces overwatching the obstacle.
 - (1) Directs one section to establish a suitable overwatch position to allow platoon to continue to develop the situation.
 - (2) Directs the other section to perform reconnaissance of the obstacle to determine composition of the obstacle and to locate a bypass. NOTE: Reconnaissance may be performed mounted or dismounted.
 - c. Sends obstacle report (FM or digital) to the commander describing type, width, length, effect, and location of the obstacle.
 - d. Sends updated SITREPs (FM or digital) to the commander as necessary.
- If a bypass is possible, PL reports the location of the bypass to the commander (FM or digital) and recommends bypassing the obstacle. NOTE: Once ordered to bypass, the platoon executes steps to bypass the obstacle. OR
- If a bypass is not possible, PL reports to the Commander and recommends, based on obstacle composition, a point of breach and either platoon-level reduction or a company-level breach.



Battle drills

• Air

- Immediately report contact.
- Immediately increase dispersion between elements and seek top cover and concealment far away from all roads or trails.
- Coordinate with elements in the platoon as to what direction the contact is.
- Determine type (fixed wing/rotary wing/UAV/armed/unarmed) and if friendly, enemy, or civilian.
- Orient most Crew served weapons, javelins, rifles, and machine guns in platoon on the contact until allegiance is determined. Appoint contingents within element to maintain local security.
- The PLT should engage the aircraft as a last resort only. For slowmoving aircraft, the platoon will engage the aircraft head-on at 50 meters, and fast moving aircraft at 200 meters with all available weapon systems.
- If the aircraft returns fire, increase dispersion and continuously seek better cover and concealment.

Electronic

- Before all operations, there should be a compromised communications plan, consisting of a PROWORD which initiates elements of the platoon jumping to a predesignated ALTERNATE frequency.
- If jamming is suspected and obvious, and you cannot break squelch, a common SOP is for all elements in PLT to jump to TRP net to coordinate jumping to alternate frequency.
 - All elements should monitor the TRP net every time the minutes on a clock ends in "30" or "00", if jamming is suspected and no radio communications have occurred on compromised frequency.
- DO NOT SAY ANY FREQUENCY NUMBERS OR ANYTHING ALLUDING TO FREQUENCY NUMBERS ON THE COMPROMISED NET BESIDES THE PROWORD TRIGGERING THE JUMP!!!!
 - If suspected that comms have been compromised, unit leader will attempt to break squelch repeating proword.
 - Unit leader will monitor both compromised frequency and alternate frequency.
 - Subordinates will radio check in sequence on alternate frequency that they have jumped, until 100% accounted for.
 - Unit leader will report contact to higher
 - Example:

On the command of 'Ricky Bobby", all radios will switch to the alternate frequency of SC PT 48.500. The PL will monitor both nets, and ensure all elements with a radio has jumped to the alternate frequency via radio checks in sequence.



AA Priorities of work

- Following occupation of the AA, the platoon prepares for future operations by conducting TLP and priorities of work according to the Troop OPORD. These preparations include the following:
 - Establish and maintain security (at the appropriate readiness level).
 - Develop a defensive fire plan. All gunners will create a range card and submit it to the VC for proofing, NLT 20 minutes after occupation of AA. PSG will create sector sketch of the defensive plan based off of range cards and submit to higher NLT 1 hour after occupation of AA.
 - Conduct dismounted security patrols to clear dead space and restrictive terrain.
 - Account for all assigned personnel, to include attachments and sensitive items.
 - Reapply personal and vehicular camouflage.
 - Perform maintenance on vehicles, weapons, and communications equipment.
 - Verify weapons system status, conduct boresight adjustment, prepare-to-fire checks, test-firing, and other necessary preparations.
 - Conduct resupply, refueling and rearming operations.
 - Conduct personal care and hygiene activities.
 - Adjust task organization as necessary.
 - Reestablish vehicle load plans as needed.
 - Conduct troop leading procedures.
 - Conduct precombat checks and a precombat inspection based on time available.
 - Conduct rehearsals and other training for upcoming operations.



Five point contingency plan GOTWA

- GOTWAs will be issued every time elements separate from one another. It ensures that leaders and subordinates understand what is supposed to happen while they are separated.
- The elements of a GOTWA are:

G: Going – Where is the leader going?

"I am traveling in this North/South Draw using CPs 1, 2, and 3 to maneuver to NAI 1."

• O: Others – Are others going with the leader and who?

"I am taking all of Alpha team consisting of Maynard (MG), Barber (Grenadier), Sickelbaugh (Rifleman), and Bruder (RTO). We are taking a PAS-13, Binos, Vector, PRC-150, and a DAGR."

T: Time – How long will the element be gone?

"I am SP'ing at 2000Z. It will take me 40 minutes to move to the NAI (2040Z), I plan on conducting reconnaissance on the NAI for 1 hour (2140Z), and it will take me 40 minutes to return (2220Z), for a total of 2 hours and 20 minutes."

• W: What procedures are taken if the leader fails to return?

"I should be providing you SITREPS at every checkpoint up to the NAI, and any information gathered on the NAI related to PIR. If you receive no radio communications with me by 21002, we will initiate the PACE plan of employing HF via the PRC-150. If I do not return within 2 hours and 20 minutes (22202), we will conduct link-up at Rally Point Bravo. If my team has not provided SITREPS and is not at Rally Point Bravo, seek guidance from TRP CO. Assume I've been captured/KIA/WIA, and assume comms have been compromised."

• A : Actions – What actions does the departing element and main body plan to execute on enemy contact?

"Should I come into contact outside of engagement criteria before PL Charlie, I will break contact to the west to avoid leading the enemy to the main body. BPT support my maneuver if I take casualties.

Should I come into contact within engagement criteria before PL Charlie, I will eliminate the threat and continue movement to the NAI. BPT support my maneuver if I take casualties.

If I take contact at the NAI, BPT support me with mounted elements using crew served weapons. I will move to the SW quadrant of the NAI, plan the DFCM accordingly.



Objective Rally Points

- An objective rally point (ORP) is where the patrol halts to prepare for actions on its objective. The ORP
 can be used in either a mounted (commonly referred to as a VDO (vehicle drop off)) or dismounted
 fashion. It is located near the objective, and is out of sight and sound range so that the patrol's activities
 at the ORP are not detected by the enemy. This is normally at least one terrain feature from the
 objective, out of small arms range of enemy forces, and far enough from the objective that it cannot be
 overrun if the patrol is forced off the objective.
- Generally for a platoon ORP it is the PSG who is in charge and left at the ORP with a small contingent of
 security, while the rest of the platoon conducts reconnaissance or priorities of work. For section level
 ORPs, generally it is the JUNIOR SL that is in charge of the ORP and it's security while the SENIOR SL goes
 forth to conduct reconnaissance. At the end of the day, whatever the decisive point of the operation is
 (dismount reconnaissance VS maneuvering of vehicles/C2) will dictate who is left at the ORP. The ORP is
 tentative until pinpointed, and is used as a base for conducting the following actions:
 - Make final preparations before continuing operations, such as applying or replenishing camouflage, preparing
 equipment and OP bags, caching rucksacks for quick recovery, verbal rehearsals for actions on the objective prior to
 performing reconnaissance, inspecting weapons, and preparing enemy prisoner of war (EPW) bindings, first aid kits,
 and litters.
 - · Issue GOTWA prior to R&S teams deploying to objective.
 - Issue FRAGORDs that effect SoM up to and on the objective.
 - · Reconnoiter the objective.
 - · Disseminate information from reconnaissance if contact was not made.
 - Account for Soldiers and equipment after actions on the objective are complete.
 - Reestablish the chain of command after actions on the objective are complete.
 - Battle tracking elements.
 - Relay station that reports information to higher.
- Deliberate occupation of an ORP is almost identical to occupying a patrol base. The exception is that
 there is no requirement to enter the ORP at a 90-degree turn. Reconnaissance by a small contingent will
 be performed on the tentative ORP site to ensure it meets the criteria for size, natural
 cover/concealment, avoidance of natural lines of drift, and is out of visual contact/direct fire range from
 enemy forces. Once the criteria is confirmed, the platoon or section will move to occupy and establish
 security with sectors of fire and DFCM. This method although preferred, is highly time consuming.
- Hasty occupation of an ORP is merely occupying by force a tentative location that seems to meet the ORP criteria, with little to no reconnaissance performed on the site. Sectors of fire and DFCM are still dictated by PLT leadership. This method is used only if there is good situational awareness of where the enemy is, and time is very limited.
- While mounted, the PL needs to template a PLOC and offset the mounted ORP far enough away where
 the vehicles won't be detected by audio signature or visual contact. The vehicles should be away from all
 roads and trails in a covered and concealed position. From there, the dismounts deploy to conduct
 actions on the objective after receiving final instructions from the PL/SLs. The mounted elements need
 to be within supporting range/distance of the objective in order to support the dismount R&S teams if
 needed. The leader that remains at the ORP is responsible for battle tracking dismounted movements,
 maintaining ORP security, and reporting to higher.
- If time allows, a leader's reconnaissance of the objective will occur once the platoon or squad establishes
 the ORP. Before departing, the leader issues a five-point contingency plan. During reconnaissance, the
 leader pinpoints the objective; selects reconnaissance, security, support, and assault positions for the
 elements; and adjusts the plan based on observation of the objective. The leader plans time to return to
 the ORP, complete the plan, disseminate information, issue orders and instructions, and allow the squads
 to make any additional preparations.



Observation Posts

- OPs are used in both Reconnaissance and Security missions.
- At a minimum there should be 2 scouts in an dismount OP team. If there are only 2 scouts, the effectiveness of that OP will diminish quickly depending on the duration of the OP. The 2 scouts should switch jobs every 20-30 minutes, because the observers effectiveness decreases quickly after that time.
- The optimal OP number is 3-4. 3-4 is optimal, because it affords enough Scouts to have an R team to recon/observe the NAI and an S team to provide security for the R team. Additionally, there are enough personnel to react to any viable form of contact, ground CASEVAC wounded personnel while still being able to fight as a team, and carry all necessary equipment to observe, report, and engage the threat. Any higher than 4 in or near a single OP increases your chance of compromise.
- At a minimum there should be 2 scouts in a single mounted OP. The 2 personnel (driver and gunner) should stay in those positions at all times during the operation, unless there is a plan to rotate them off those duties with extra dismounts who know how to operate the vehicle, optics, and weapon systems.
- A SET OP, is an OP that is secure and can observe the assigned NAI, TRP, and Avenue of Approach.
- An ESTABLISHED OP, is an OP where mounted / dismounted elements have HIDE/fighting positions, range cards/sector sketches are complete, TRPs are coordinated with other OPs, positions are camouflaged, EA development has been conducted, and the OP is more defendable. Battle drills for viable forms of contact should be planned and verbally rehearsed. OP teams should work towards transforming a SET OP to an ESTABLISHED OP. The PL/SL should dictate a time for the OP to be established after set, based off of his ICM.
- For Reconnaissance missions, you should set multiple short duration surface OPs utilizing cover and concealment on the outskirts of the NAI. Ensuring you have multiple vantage points for redundancy, multiple OPs for cueing, and different asset capabilities for mixing.
- During Reconnaissance missions, if the PLT or SEC does not have enough personnel to have multiple OPs on the objective, a single OP team will have to clover leaf around the NAI IOT view the entire area with multiple vantage points.
- For long duration Security missions, OPs should be sub-surface and within supporting range/distance of other dismounted or mounted elements. More Surveillance is conducted than Reconnaissance for a static sub-surface OP.



Observation Post Selection

- Based on the commander's guidance, the platoon leader selects the general location for the platoon OP's after analyzing the factors of METT-TC. From this analysis, the platoon leader determines how many OP's he must establish. The dismounted team and squad leaders select the exact position for each OP when they are physically on the ground. An OP should have the following characteristics:
- Good observation of the assigned area or sector. Ideally the fields of observation of adjacent OP's overlap to ensure full coverage of the sector.
- Effective cover and concealment. Scouts may need to pass up a position with favorable observation capability but no cover and concealment to get a position that provides better survivability.
- Covered and concealed routes to and from the OP. Scouts must be able to enter and leave their OP without being seen by the enemy.
- A location that will not attract attention. OPs should not be located along natural lines of drift.
- A location that does not skyline the observers. Avoid hilltops. Position OPs further down the slope of the hill or on the side, provided there are covered and concealed routes into the position. Stay away from the most obvious and highest hill in the area, they will be key terrain for the enemy reconnaissance.
- A pneumonic device to remember OP selection is BLUES:
 - B- Blend in with the surrounding area
 - · L- Low to the ground construction techniques must be used
 - U- Unexpected sites should be use
 - E- Evacuation routes must be planned during site selection
 - S- Avoid silhouetting of the site



Observation Post equipment

- Essential equipment for the OP includes the following:
 - Compass
 - Weapons consisting of rifles, machine guns, mines, and AT4/javelins.
 - Optics consisting of NODS, Vectors, TRGRs, spotting scopes, binos, laser range finders, and PAS-13.
 - Radios that are specified in the PACE plan. Also the accompanying SOI, report formats, and means to construct field expedient antennas.
 - Map of the area with graphics.
 - Seasonal equipment/sustainment.



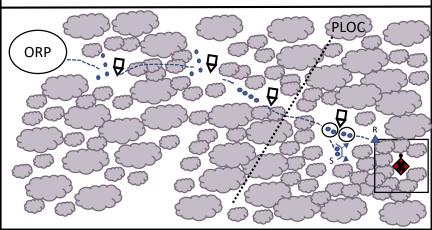
Dismount movement to and occupation of an OP

- When an objective is templated with threat, stealth is the biggest security measure that dismounts possess. The closer you get to the objective, the higher your chances of compromise. The more people you have near the objective, the higher your chances of compromise.
- Deliberate thought needs to be given as to what the mission essential equipment is and how many personnel you actually need on an NAI. The NAI should have just enough OP teams to fully develop the situation, and maintain threat contact without becoming compromised.
- There should always be a PLOC templated that triggers a change from movement to maneuver up to the objective.
- If mission requirements dictate moving as a platoon or section and setting multiple OPs, a release point needs to be templated prior to the PLOC where the teams will disperse to their templated OPs. This avoids "herd" mentality of following the man in front of you, and massively decreases the chance of compromise.
- Leading up to and beyond the PLOC, the team will transition into a file and attempt to stay perpendicular to the objective. The reason for this, is it will be more difficult (from the point of view of the objective) to detect a perpendicular line of Scouts compared to a parallel line of scouts
- The team should attempt to avoid vegetation which would cause an audio signature. If there is no way to avoid such vegetation, the movement through it should be slow and methodical to minimize the noise.
- The team will utilize terrain to mask their movement. This involves staying in the shadows, bounding to the next piece of cover and concealment, walking in micro terrain, and staying in the dead space.
- The team will conduct SLLS (stop, look, listen, smell) halts habitually for up to 5-10 minutes while moving to the tentative OP, paying close attention to any audio signatures the enemy might inadvertently show.



Dismount movement to and occupation of an OP

- Once just outside of the NAI, the TL or SL will conduct one last SLLS halt. After that's completed, he will emplace the Security team in a covered and concealed position that will afford observation of the Recon team while they push up to a tentative OP location.
- The Recon team will issue the Security team a GOTWA prior to deploying. Both teams should have radios. They will also prepare all necessary equipment prior to going forward to observe the NAI.
- The Security team will act as a rally point for the Recon team if they have to displace. They will also serve as a support by fire and early warning element to the Recon team. Claymores should be setup to enable displacement of both R&S if under direct fire contact.





Actions on the short and long halt

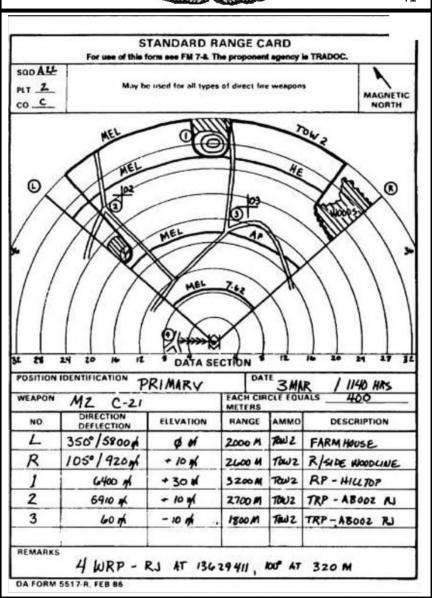
- Units conducting tactical movement frequently make temporary halts. These halts range from brief to extended periods. For short halts, platoons use a cigarshaped perimeter intended to protect the force while maintaining the ability to continue movement.
- When the platoon leader decides not to immediately resume tactical movement, he transitions the platoon to a perimeter defense. The perimeter defense is used for longer halts or during lulls in combat.
- DISMOUNTED short halt. This typically takes one to two minutes. Scouts seek immediate cover and concealment and take a knee facing outward. Leaders assign sectors of fire.
- DISMOUNTED long halt. This typically takes more than TWO MINUTES. Scouts assume the prone position behind cover and concealment facing out. Leaders ensure scouts have clear fields of fire, and assign sectors of fire.
- MOUNTED short halt. This typically takes one to two minutes. Vehicles form a herring bone formation while on the road, and the Senior SL or PSG ensures sectors of fire are covered for 360.
- MOUNTED long halt. This typically takes more than TWO MINUTES. The PSG or SL will keep track of time, and direct all mounted elements to move off of road into a covered and concealed position after two minutes. Dismounts will be deployed to provide local security, and perform reconnaissance on dead space. Leaders assign sectors of fire, and ensure they are overlapping. Leadership will determine if a short-count is necessary.



READINESS CONDITIONS

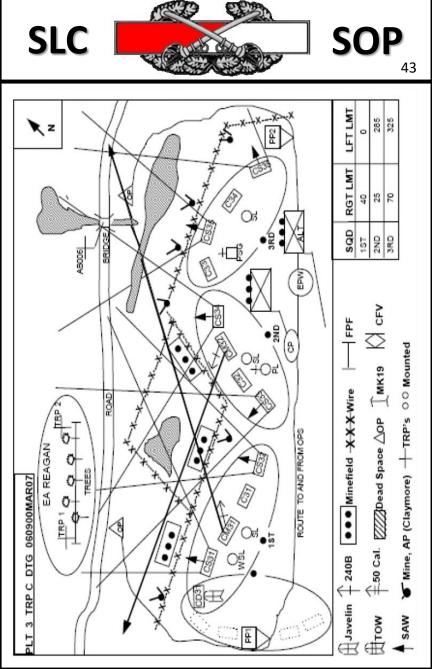
REDCON LEVEL	ACTIONS – Readiness conditions (REDCON)
REDCON-1 Full alert; unit ready to move and fight	 All equipment stowed; OPs pulled in. All personnel alert and mounted on vehicles; weapons manned. Engines started; platoon ready to move immediately. All digital and FM links operational. NOTE: The level of REDCON-1(-) is the same as REDCON-1 except vehicles are not started.
REDCON-2 Reduced alert; unit ready to move in 15 minutes	 All equipment stowed; OPs pulled in (may still have local dismounted security). All personnel alert and weapons manned. All digital and FM links operational. Status reports submitted IAW company/troop SOP.
REDCON-3 Reduced alert; unit ready to move in 30 minutes	 50 percent of platoon executes work/rest plans. Remainder of platoon executes security plan, to include manning OPs, weapons, and monitor radios/phones.
REDCON-4 Minimum alert; unit ready to move in 1 hour	 OPs manned; one man per platoon designated to monitor radio and one man on weapons. Remainder of platoon executes work/rest plans. Digital/FM links maintained.

SLC SOP



SLC SOP

		TANDARD R. this form see FM 7-8.			DOC	
SQD PLT CO	May b	e used for all types	of direct fire	e weapons		MAGNETIC NORTH
	DENTIFICATION	DATA SE				
WEAPON			EACH CIR METERS	CLE EQU	ALS	
NO.	DIRECTION/ DEFLECTION	ELEVATION	RANGE	АММО	DESCR	RIPTION
REMARKS						
DA FORM 5517	-R. FEB 86					



	S		.(•	ক্ষ্				Yor yor	No.	A. I.	ST.	,			S	6 C)F) 4	4
	Range Card	Checklist	-Ind and Crew-served	wpns	-240B FPLs and dead	space	-Dead space to front	-LP/OP positions	-Javelin positions	-Anti-armor EAs	-TRPs, FPFs and	TGTs	-Wire and mine fields	-Adjacent units	-Platoon CP	-Medevac & supply	routes	-Supplementary and	Alternate positions	-Passage lines			
			z																	LFT LMT			
																				SQD RGTLMT LFTLMT			
																				sqD			
Sector Sketch																							
		_																					
	-	DIG																					
	-	R																		,			
	ł	L																					



TERRAIN INDEX REFERENCE SYSTEM (TIRS)

- TIRS is a tool that can be used routinely to maneuver the platoon. It should be used during combat operations. It can be used to identify battle positions (BP), to quickly pass out control measures (such as the LD, PLs, and boundaries), or to report friendly unit locations. It is not a method of encrypting information. Repeated use of TIRS "in the clear" can compromise unit security and safety.
- The parent unit normally issues the TIRS points to be used for the operation with the initial overlay received during the warning order. If the overlay with TIRS does not come with the warning order, the platoon leader should actively seek out the TIRS list. (TIRS should be transferred to graphics or directly onto a map as soon as possible. The written list of TIRS points must be kept for future reference.)
- Each TIRS point is designated by a mark, in the shape of a cross or plus sign, located on a grid line intersection. Each point is given a designator of one letter and two numbers; the designator is placed in the upper-right quadrant of the mark. TIRS point designators are a matter of SOP. Units may assign specific letters and numbers for specific unit sectors or areas of operations. For example, a TIRS point could be identified with the designator X56 and marked on a map at PA130620 (using six-digit grid coordinates).
- Referencing a location from a TIRS point is done in kilometers. For example, 500 meters is given as "POINT FIVE," 1,000 meters as "ONE," and 3,500 meters as "THREE POINT FIVE." For shifts from the TIRS point, cardinal directions are used rather than "left," "right," "up," or "down." Shifts to the east or west are given first, followed by shifts to the north or south.
- Consider the following transmission: "FROM X-RAY FIVE SIX-EAST ONE POINT EIGHT-NORTH ONE POINT SEVEN." This means, "From the tick mark for TIRS point X56, shift east 1,800 meters and north 1,700 meters."
- When a TIRS point is placed on a grid intersection, the use of shifts makes the TIRS point as accurate as a six-digit grid.
- The enemy will quickly figure out the TIRS locations if they are continually used in the clear on an unsecure net. Try not to use the same TIRS point more than twice. Instead, use a different TIRS point to reference the same location. The points can be encrypted using the numerical cipher/authentication system (authentication tables) and the operations code from the signal operation instructions (SOI). The letter in the TIRS point designator is given in the clear. The two-digit numerical portion is then encoded, making the designator for the TIRS point into a three-letter group. If the same TIRS point is used again, change the two-digit numerical designator. TIRS should never be used to give enemy locations.



Hearing distances

Source	Dist	ance	•	
Cannon shot	0.0	to	15.0	kilometers
Single shot from a rifle	2.0	to	3.0	kilometers
Automatic weapons fire	3.0	to	4.0	kilometers
Tank movement				
On a dirt road	0.0	to	2.0	kilometers
On a highway	3.0	to	4.0	kilometers
Motor vehicle movement				
On a dirt road	0.0	to	500.0	meters
On a highway	0.0	to	1.0	kilometers
Movement of troops on foot				
On a dirt road	0.0	to	300.0	meters
On a highway	0.0	to	600.0	meters
Small-arms weapon loading	0.0	to	500.0	meters
Metal on metal	0.0	to	300.0	meters
Conversation between a few men	0.0	to	300.0	meters
Steps of a single Soldier	0.0	to	40.0	meters
Axe blow, sound of saw	0.0	to	500.0	meters
Blows of shovels and pickaxes	0.0	to	1,000.0	meters
Screams	0.0	to	1,500.0	meters
Oars on water	0.0	to	2,000.0	meters



Base camp sizes by echelon

		•		
Base Camp Size	Approximate Population	Dimension	Surface Area Required (not including standoff)	Length of Perimeter (nominal)
Platoon	50	150 meters by 250 meters	37,500 square meters	800 meters
Company	300	300 meters by 450 meters	135,000 square meters	1,500 meters
Battalion/battalion landing team	1,000	500 meters by 1,200 meters	600,000 square meters	3,400 meters
Brigade/regimental combat team	3,000	To be determined by base camp planners	To be determined by base camp planners	To be determined by base camp planners
Support area	6,000 or greater	To be determined by base camp planners	To be determined by base camp planners	To be determined by base camp planners

Table E-1. Base camp sizes and planning factors



Vehicle fighting position data

Vehicle Types		Positio	n Dimensi	on (feet)"	Equipment Hours	Minimum Berm Thickness at Base (feet) ^s	
	venicie Types		Width	Depth	D7 Dozer/M9 ACE/MCT		
	Stryker vehicle (all variants) with slat armor	32	19	9	1.6	8	
-	M113 series carrier	22	14	6	0.6	8	
2	M577 command post vehicle	22	14	9	0.8	8	
Hasty	M106 and M125 mortar carrier	22	16	7	0.7	8	
-	AAV with armor kit	33	19	11	2.0	8	
	LAV with armor kit	27	25	9	1.7	8	
	Hull Deflade	10 C	00 X				
	M113 series carrier	22	14	6	0.6	NA	
e	M577 command post vehicle	22	14	9	0.8	NA	
Deliberate	M106 and M125 mortar carrier	22	16	7	0.7	NA	
8	M2 and M3 fighting vehicle	26	16	7	0.8	NA	
å	M1 main battle tank	32	18	5.5	0.9	NA	
	AAV with armor kit	33	19	11	2.0	NA	
	LAV with armor kit	27	25	9	1.7	NA	

	Vehicle Types	Positio	n Dimensi	on (feet) ²	Equipment Hours	Minimum Berm
		Length	Width	Depth ³	D7 Dozer/M9 ACE/MCT	Thickness at Base (feet) ⁶
	Access Route	width as the 3-17A, Prod	huil defliade	Clearing times determined by	r hide locations must s are planned using F r calculating the volu g by 100 bank cubic	FM 5-34/MCRP me of soil needed
Deliberate	Hide Location	clearing time minimum wi The hide po	es are planne dth of the hid sition depth i	ed with the use le location is th	ertain and conceaims of FM 5-34/MCRP 3- e same as the delibe calculated by increasi by 15 percent.	17A. The rate hull deflade.
a a	Turret Defliade					
ã	Stryker vehicle (all variants) with slat armor	32	19	9	1.6	NA
	M113 series carrier	22	14	7.5	0.7	NA
	M2 and M3 fighting vehicle	26	16	10	1.2	NA
	M1 main battle tank	32	18	9	1.5	NA
	AAV with armor kit	33	19	13	2.3	NA
	LAV with armor kit	27	25	12	2.3	NA
² Positi India ³ Total ⁴ This require constri- constri constri	y postions for tanks and infantry fighting vehicles not ion dimensions provide an approximate 3-toot clearar dea access ramp(s). depth includes any berm height. All depths are appro- column provides rules of thirmb which are useful (if ed to prepare fighting positions. These equipment his uction time by 0.85 for nocky or hard soil, night condi- uction time by 0.85 for nock or hard soil, night condi- uction time ber TM 3-34 62 for more information abo- ns are not recommended for hull and turret defiliade pro- d.	toe around veh wimate and will the absence urs are based tions, or closed ut estimating p	icle for move i need adjust of actual pro on a product d hatch oper	ment for surrou duction rate da ion rate of 100 ations (M9). Us	nding terrain and fiel ita) as a starting pol bank cubic yards pe	nt to estimate time r 0.75 hour. Divide
AAV-	assault amphibious vehicle	AV – light arm ICRP – Marine		nce publication	NA - n	ot applicable

edium crawler trac



Vehicle data

VEHICLE M1A2 ABRAMS	MLC 82	FORD 48"	RANGE 504g tank/220 miles HW
M2A3 BRAD	36	36-48"	197g tank/300 miles HW
M3 BRAD	25	36-48"	197g tank/300 miles HW
M109A5 PALADIN	28	42"	133g tank/217 miles HW
M113	12	40"	95g tank/300 miles HW
M88A2 HERCULES	71	56"	413g tank/314 miles HW
	40/00	401	
M977 HEMMT	18/28	48"	155g tank/300 miles HW
M978 FUELER 3	2 FILLED	48"	155g tank + 2500g fuel
M984 WRECKER	19	48"	155g tank/300 miles HW
M1070 HET+M1A2	96	28"	250g tank/325 miles HW
M1083 LMTV	10/16	36"	56g tank/300 miles HW
	04	F0."	
STRYKER MCV	21	53"	53g tank/280 miles HW
STRYKER SINGLE V	21	53"	53g tank/280 miles HW
STRYKER MGS SLA	T 25	53"	53g tank/280 miles HW
M1151 HMMVVV	6	30/60" w kit	25g tank/250miles HW

HEMMT TURNING RADIUS 29 M HET+TRAILER TURNING RADIUS 24.03-24.7M

FORD DEPTH BASED OFF OF HARD FORDING SURFACE

HIGHEST MLC'S GIVEN FOR MOST COMMON VARIANTS. 2 MLC'S WERE GIVEN TO SIGNIFY EMPTY/LOADED. STRYKER SINGLE V MLC IS ICV/RV WITH SLAT ARMOR, MCV MLC IS SINGLE V W/O SLAT.

Always remember the purpose of route reconnaissance is to determine trafficability of the route for follow on forces. If your vehicle can barely travel on the route due to width/height/road composition, chances are follow on forces can barely travel on it too.

Weapon data

SOP

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SLC

WEAPON	M249	M240- SERIES	M2/M1A2	MK19
Field Manual	FM 3-22.68	FM 3-22.68	FM 3-22.65	FM 3-22.27
Description	5.56-mm gas-operated automatic weapon	7.62-mm gas- operated medium machine gun	.50-caliber recoil- operated heavy machine gun	40-mm air- cooled, blowback- operated automatic grenade launcher
Weight	16.41 lbs. (gun with barrel) 16 lbs. (tripod)	27.6 lbs. (gun with barrel) 20 lbs. (tripod)	128 lbs. (gun with barrel and tripod)	140.6 lbs. (gun with barrel and tripod)
Length	104 cm	110.5 cm	156 cm	109.5 cm
SUSTAINED RATE OF FIRE Rounds/Burst Interval Minutes to Barrel Change	50 RPM 6-9 rounds 4-5 seconds 10 minutes	100 RPM 6-9 rounds 4-5 seconds 10 minutes	40 RPM 8-9 rounds 10-15 seconds Change barrel end of day or if damaged	40 RPM
RAPID RATE OF FIRE Rounds/Burst Interval Minutes to Barrel Change	100 RPM 6-9 rounds 2-3 seconds 2 minutes	200 RPM 10- 13 rounds 2-3 seconds 2 minutes	40 RPM 6-9 rounds 5-10 seconds Change barrel end of day or if damaged	60 RPM
WEAPON	M249	M240- SERIES	M2/M1A2	MK19
Cyclic Rate of Fire	850 RPM in continuous burst Barrel change every 1 minute	650-950 RPM in continuous burst Barrel change every 1 minute	450-550 RPM in continuous burst	325-375 RPM in continuous burst
Maximum Effective Ranges	Bipod/point: 600 m Bipod/area: 800 m Tripod/area: 1,000 m Grazing: 600 m	Bipod/point: 600 m Tripod/point: 800 m Bipod/area: 800 m Tripod/area: 1,100 m Suppression: 1,800 m Grazing: 600 m	Point: 1,500 m (single shot) Area: 1,830 m Grazing: 700 m	Point: 1,500 m Area: 2,212 m
Maximum Range	3600 m	3725 m	6764 m	2212 m

SLC SOP

Weapon data

	M16A2	M4
Weight	7.78 lbs	6.49 lbs
Maximum effective rate of fire:		
 Semiautomatic (rounds per minute). 	45	45
 Burst (3 rounds per minute). 	90	90
 Sustained (rounds per minute). 	12-15	12-15
Range:		
 Maximum range (meters). 	3,600 meters	3,600 meters
 Maximum effective range. 		
Point target (meters).	550 meters	500 meters
Area target (meters).	800 meters	600 meters
Operational Characteristics:		
 Barrel (rifling-right hand 1-inch twist). 	7	7
Muzzle velocity.	3,100 ft/sec	2,970 ft/sec
Cyclic rate of fire.	700-900 rds/sec	700-900 rds/sec
References:		
• FM 3-22.9.		
 TM 9-1005-319-10. 		

SHOULDER- LAUNCHED MUNITION	M136 AT4 DODIC C995	M136A1 (AT4CS) DODIC HA35	M72A2/A3 LAW DODIC H557	
Field Manual	TM 3-23.25	TM 3-23.25	TM 3-23.25	
Carry Weight 15.0 lbs.		17.0 lbs.	5.0 lbs.	
Length: 40 inches		41 inches	25 inches	
Carry Extended:	N/A	N/A	35 inches	
Caliber	84-mm	84-mm	66-mm	
Muzzle Velocity	290 m/s	225 m/s	144.8 m/s	
wuzzie velocity	950 f/s	738 f/s	475 f/s	
Operating	-40 to 60 C	-40 to 60 C	-40 to 60 C	
Temperature	-40 to 140 F	-40 to 140 F	-40 to 140 F	
Maximum Effective Range	300 m	300 m	Stationary – 200 m Moving - 165 m	
Maximum Range	2100 m	2100 m	1000 m	
Minimum Arming Range	10 m	10 m	10 m	

Weapon data

SLC

Type of System	Fire and forget					
Crew	One- to three-Soldier teams based	on TOE				
Missile Mode	Top attack (default)					
MISSIE MODE	Direct attack					
Minimum Effective Range	Top attack mode	150 m				
Minimum Ellective Range	Direct attack mode	65 m				
Maximum Effective Range	Direct attack and top attack modes	2,500 m				
	Primary danger zone	Extends out 25 m at a 60-degree (cone-				
Backblast Area		shaped) angle				
	Caution zone	Extends the cone-shaped area out to 100 m				
NOTE: See Figure 1-5 and Append	ix A for safety factors.					
Propulsion-	Launch motor ejects the missile abo	out 15 ft from the LTA				
Two-Stage Motor	Flight motor propels the missile to t	the target				
Minimum room length		15 ft				
Firing From Inside Enclosures	Minimum room width	12 ft				
	Minimum room height	7 ft				

	CLU with Bat	tery, Carry Bag, and Cleaning Kit							
	Weight	14.99 lb (6.80 kg)							
	Length	19.29 in (49.00 cm)							
	Height	13.00 in (33.02 cm)							
Dimensions and Weight	Width	16.50 in (41.91 cm)							
-		Carry Bag Only							
	Width	0.60 lb (0.27 kg)							
	CLU with	Carry Bag and Cleaning Kit							
	Weight	12.77 lb (5.79 kg)							
		Daysight							
	Magnification	4x							
	FOV	6.4° x 4.8°							
Circles .		NVS							
Sights	WFOVmagnification	4x							
	WFOV	6.11° x4.58°							
	NFOVmagnification	12x							
	NFOV	2° x 1.5° (approximately)							
		*Lithium sulfur dioxide battery, BA-5590/							
	Type	(Non-rechargeable)							
	1300	**Nickel metal hydride battery, BB-390A/U							
		rechargeable (training use only)							
	Number required	1							
Detter	National stock number (NSN)	*6135-01-036-3495							
Battery	National Stock number (NoN)	** 6140-01-490-4317							
	Weight	2.22 lb (1.01 kg)							
		4.0 hr below 120°F (49°C)							
	Life (NICLIT and a)	3.0 hr between 50°F to 120°F (10°C to 49°C)							
	Life (NIGHT mode)	1.0 hr between -20°F to 50°F (-49°C to 10°C)							
		0.5 hr above 120°F (49°C)							

	Wei	ght and Dimensions						
	Weight	34.16 lb (15.50 kg)						
Round, Complete LTA With	Length	47.60 in (120.90 cm)						
Missile BCU Installed		Diameter						
	Across end caps	11.75 in (29.85 cm)						
	Across LTA	5.515 in (14.00 cm)						
	We	eight and Diameter						
	Weight	22.328 lb (10.128 kg)						
	Length	42.626 in (108.27 cm)						
Missile Only	Diameter	5.000 in (12.70 cm)						
		Seeker FOV						
	FOV magnification	9x						
	FOV	1° x 1°						
		eight and Diameter						
	Weight	2.91 lb (1.32 kg)						
	Length	8.160 in (20.726 cm)						
	Width	4.627 in (11.752 cm)						
BCU		Battery Section						
	Type	Lithium iron disulfide (non-rechargeable)						
1	Life Expectant	4 min minimum						
	Co	polant Gas Section						
	Type	Argon						

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SOP

Raven data

Parameter	Characteristic
Wingspan	55 in
Length	36 in.
Structure	modular, Kevlar TM composite
EO Payload Weight	6.5 oz. (0.4 lb.)
Air Vehicle Weight (with EO Payload	4.4 lb.
IR Payload Weight	11.5 oz. (0.7 lb.)
Air Vehicle Weight (with IR Payload)	4.7 lb.
Gimbaled Payload Weight	13 oz. (0.8 lb.)
Air Vehicle Weight (with Gimbaled Payload)	4.8 lb.
Normal Operating Altitude	150 - 1,000 ft. above ground level (AGL)
Cruise Speed	26 kts
Range	10 km line of sight (LOS)*
Climb Rate	800 ft./min at 2,000 ft. mean sea level (MSL)
Turn Rate	90° in 6 seconds
Motor	Direct drive electric
Air Vehicle Batteries	Li-Ion (rechargeable)
Flight Duration	60-90 min.
Launch	Hand launch
Landing	Deep stall Autoland
Navigation	P(y)-code Global Positioning Sys- tem/Selective Availability Anti- Spoofing Module (GPS/SAASM) (WGS84) and electronic compass
Flight Control	Manual or autonomous

SLC

* Link range is greater with directional antenna than with ommi antenna. Link range can be temporarily limited by terrain, weather, obstructions, antenna orientation, or interfering transmitters. -Maximum Launch Altitude: 10,000 ft. MSL. Launching above 10,000 ft. MSL can be accomplished but with reduced climb rate and thus increased risk of impact with nearby obstacles.

SOP

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-Maximum Flight Altitude: 300-500 ft. AGL. Operating above 500 ft. AGL can be accomplished but with reduced video sensor performance. -Wind speed maximum is 20 knots. The Raven can be operated in winds higher than 20 knots but with reduced mission capability and higher risk of damage during launch, landing

and recovery.

-Operational temp range is -29 deg Celsius to 50 deg Celsius.

RAVEN PER SQDN IN BCTS

IBCT	SBCT	ABCT
3x Ravens	3x Ravens	5x Ravens

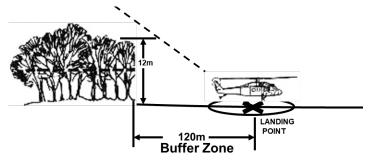


HLZ data

Landing Point	Minimum Diameter Of Landing Point	Type of Helicopter/Operation
Size 1	25m (ARMY)	A/M/OH-6, UH-72A
Size 2	35m (MARINE)	AH-1W/Z, UH-1Y /N
Size 3	50m	AH-64, UH-60A/L/M, SH-60, MH-60
Size 4	80m	All CH A/C, to include MV/CV-22B
Size 5	100m	All Slingload A/C (Daytime), A/C of unknown origin
Size 6	125m	All Slingload A/C using long lines
Size 7	150m	All Slingload A/C (Night time)

Qualified PF or AA may have authority to reduce TDP by 1 size if coordinated with Aviation unit CO. Reducing TDP Is a last resort measure.

Standard obstacle ratio is 10:1. Qualified PF or AA may have authority to reduce ratio to 5:1 if coordinated with Aviation unit CO. Reducing obstacle ratio is a last resort measure, second to TDP reduction



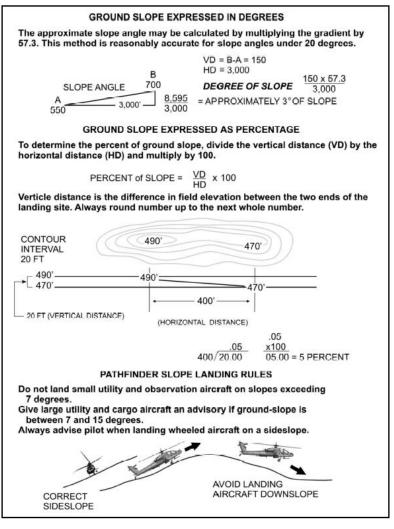


HLZ surface conditions

- SURFACE Pathfinders choose a landing point with a hard surface to support the weight of the aircraft to prevent helicopters from becoming mired, creating excessive dust, or blowing snow. The surface of the landing point must allow a fully-loaded helicopter to land, restart, and leave again, all without sinking into the ground.
- CLEAR TO GROUND Pathfinders must clear the entire landing point of any loose material that the rotors could blow up. The term is "cleared to ground level." Unless a fire risk exists, they need not clear grass less than 0.3 meter (1 foot) high, as long as the field is level.
- **OBSTACLES** Ground troops must do everything they can to improve landing point surfaces so aircraft can land. In general, an obstacle is a stump, rock, hole, or other object, 18 inches or larger, that might damage the aircraft or impede aircraft landing. No obstacles can be in a TDP in which an aircraft is going to land. 4 R's include:
 - Remove
 - Reduce
 - Red
 - Radio
- **GROUND SLOPE** Pathfinders choose landing sites with relatively level ground. For the helicopter to land safely, the slope should not exceed 7 degrees. Whenever possible, pilots should land upslope rather than downslope. All helicopters can land where ground slope measures 7 degrees or less and no advisory is required. When the slope exceeds 7 degrees, observation and utility helicopters that utilize skids for landing must terminate at a hover to load or off-load personnel or supplies. When the slope measures between 7 and 15 degrees, large utility and cargo helicopters that use wheels for landing are issued an advisory, and they land upslope. When the slope exceeds 15 degrees, all helicopters must be issued an advisory and terminate at a hover to load or off-load personnel or supplies.



How to determine ground slope in degrees



IDF ranges and risk estimate distance

m

ner

E

m

SLC

n = 85

	Table 27. Fie	Id Artillery	Table 27. Field Artillery Cannons / Naval Surface Fire Support (cont'd)	al Surface Fi	ire Suppo	rt (cont'd			Та	Table 28. Mortars	rtars		
	Ammunition	nition	Range	Range (kilometers)		Rate of Fire	f Fire	Weapon	Ammu	Amunition	Ranc	Range (m)	Rate of fire
			•			(rounds per minute)	ls per ute)		Model	Type	Min.	Max.	(rounds per minute)
	Projectile	Fuze	Мах	DPICM	RAP	Sust	Мах	60mm M224	M720	뀌	20	3,489	30 for 4 minutes ²
	HE, WP,	PD, VT,	18.2 or 21.7w/		30.0	1	4 for 2		M888 M722	빌	202	3,489	then 20.
9¥	ILLUM,	MI, EI,	M/95 HE,	28.1 W/			minutes		M721	ILLUM	200	3,489	illumination:
/, I		Delay	24 5w/ M982	1000 4			7 11911		M302A1	WP	35	1,830	M721–500m
.GA(M825		Block 1-1a1						M83A3	ILLUM	725 46	950	M83A3-300m
601 ພຽ	Smoke,							A0004 80	N43A4		6	1,000	
.W 91	SCATMINE								M374A2		5 2	4,600	ZD TOF Z MINUTES, then R
	HE, WP,	PD, VT,	22.2 w/	N/A	30.0	2	4 for 2		M375A2	MP	2.2	4.595	Diameter of
səi	ILLUM,	MT, ET,	M201A1				minutes		M301A3	ILLUM	100	3,150	illumination: 360m
iəs-		Delay	22.5 w/ M232				I IIAII	81 mm M252	M821	뽀	80	5,800	30 for 2 minutes,
227	M825	Î	Zone 5; 24.5						M889 M374A3	± ±	2 8	5,800	then 15 Diamatar of
<u>/</u> W	Smoke,		w/ M982						M819	L L L	300	4.875	illumination: 1500
wu	SCATMINE		Block 1-1a						M375A2	WP	73	4,595	
ugg			Smoke; 24.5						M853A1	ILLUM	300	5,060	
٩L			W/ M982						M301A3	ILLUM	100	3,950	
/	HE, ILLUM	PD, VT,	21.9 (full charge)	N/A	A/A	16-20		120mm M120	M57 M68	₽₽	200	7,200	16 for 1 minute, then 4
yə		Delav	12.2 (reduced						M91	ILLUM	200	7.100	Diameter of
242 5-ir		Ì	charge)						M933	HE / PD	200	7,200	illumination: 1500
Notes:									M934	HE / MOF	170	7,200	
1. Exc	alibur round	ds are not	1. Excalibur rounds are not authorized for the M109A5.	the M109A	5.				M930		170	7,200	
2. Th€	ere are two i	NSFS-type	2. There are two NSFS-type ships: the USS Arleigh Burke-class guided-	S Arleigh E	surke-cla:	ss guider	÷	120mm	M934A1	뽀	478	6,700	4 for 1 minute, the
missil	e destroyer	(DDG), a (missile destroyer (DDG), a one-gun ship; and the USS Ticonderoga-class,	and the US.	STICOND	eroga-clé	ass,	(smoothbore)	M929	SMOKE	478		2
guider		uiser (CG)	guided-missile cruiser (CG) a two-gun snip. The biggest limitation to NSFS	p. The bigg	est limita:	tion to N	STV IS	M3Z/ (EF33)	M930		1,342	2000	A for 4 minute the
3. Sec	arograpriy, Appendix I	IIIE avera(H. Risk Es	ure riyorograpriy, ure average oran or an NSES surp is 29 reet. 3. See Amendix H. Risk Estimate Distances, for a detailed discussion of	tes for a de	s zə leet. tailed dis	cussion	of	M327 (EFSS)	M1103	SMOKE	1,222		
dange	danger close.							:	M1105	ILLUM	1,222	7,900	
Leaend:	ġ							Notes: 1 Binord-moi inted charge 4 maximum handheld range is 1 300m	od charne 4	maximum h	andheld r	anne is 1	300m
APICI	APICM—antipersonnelimproved	onnelimpi		MT-mechanical time	ical time			2. This applies to charge 2 and over. Thirty rounds per minute can be	o charge 2 ar	nd over. Thi	rty rounds	per minu	te can be
conv	conventional munition	nition	_	MTSQ—mechanical time superquick	nanical tir	ne super	quick	sustained with charge 0 or 1.	harge 0 or 1.				
	CVT—controlled variable time	variable tir		NSFS—naval surface fire support	l surface	fire supp	ort	Legend:					
	conventional munition	nition	_	RAP-rocket assisted projectile	assisted	projectile	6	EFSS—Expeditionary Fire Support	onary Fire St	thoort	min-minimum	im um	
Ē	ET-electronic time	Je	SC	SCATMINE-scatterable mine	-scatterat	blemine		BE-hinh evolosive	avi			MOE_multi-ontion fuze	fiize
Т Щ	HE-high explosive	ve	ns	sustsustained	ed			ILLUM—Illumination	ion		PD-poir	PD-point detonating	ing
ILLUN	LLUM-illumination	n	5	VT—variable time	time			m-meter			RP-red	RP-red phosphorous	ous
max	nax-maximum		8	WP-white phosphorous	osphoro	sn		max-maximum			WPwh	WP-white phosphorous	lorous
- E E	mm-millimeter												

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SOP

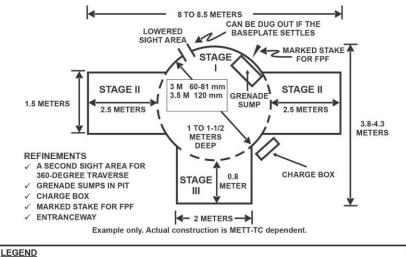


IDF ranges and risk estimate distance

Risk estimate distances (REDs) describe the likelihood (1 in 1000 chance) in terms of distance from point of impact of soldiers being incapacitated in increments of 1/3rds, 2/3rds, and max range of system firing. It is different from DANGER CLOSE, as "Danger Close" is a warning of the proximity of friendly forces and possibility of increased risk. "Danger close" does not restrict ground force maneuver or fires employment. Therefore you are able to CFF within "danger close", up to the limit of the risk estimate distance. However once the point of impact crosses the distance laid out in REDs, you start running the chance of fratricide.

Та	ble 81. Unguided	Mortar Risk	Estimate D	istances				
System	Description	Danger <u>Close (</u> in meters)	Range	0.1% Prot Incapad (in me Standing	itation			
M224	60 millimeter	600	1/3	115	115			
	(mm) Mortar		2/3	125	120			
	. ,		Max	145	145			
M252	81mm Mortar	600	1/3	170	160			
			2/3	195	190			
			Maximum	195	185			
M120/	120mm Mortar	600	1/3	280	260			
M327			2/3	395	365			
			Maximum	430	410			
Tab	ole 82. Unguided C	annon Risl	Estimate D	Distances				
System	Description	Danger <u>Close (</u> in meters)	Range	0.1% Prob Incapacit mete	ation (in			
		meter 3)		Standing	Prone			
M119/M1	105mm		1/3	290	270			
19A2	Howitzer HE (M1 Comp	600	2/3	300	285			
	B/M760)		Maximum	455	430			
	105mm		1/3	250	230			
	Howitzer HERA (M913 HERA/	600	2/3	410	395			
	M927 HERA)		Maximum	650	620			
M109A6/	155mm		1/3	300	285			
M777A2	Howitzer HE (M107 Comp	600	2/3	460	440			
	B/M795)		Maximum	695	665			
	155mm Howitzer		1/3	270	260			
	DPICM	600	2/3	325	310			
	(M483A1)		Maximum	510	490			
	155mm Howitzer		1/3	325	305			
	DPICM (M864)	600	2/3	500	485			
			Maximum	825	775			
	155mm		1/3	360	360			
	Howitzer RAP	600	2/3	530	520			
	(M945A1 RAP)		Maximum	1,045	965			
HE—high e HERA—hig	ual purpose improv explosive gh explosive rocket ket assisted projectil	assisted	onal munition	1				





I	LEGEND	
	FPF	FINAL PROTECTIVE FIRE
	METT-TC	MISSION, ENEMY, TERRAIN AND WEATHER, TROOPS AND SUPPORT AVAILABLE, TIME
		AVAILABLE, AND CIVIL CONSIDERATIONS
	mm	MILLIMETER

For mounted mortar platforms reference the vehicle fighting positions.



- Mortar-firing positions are selected based on mission accomplishment (the most important factor), tactical situation, target range criteria, target area coverage, survivability, overhead and mask clearance, surface conditions, communications, and routes.
- Mission accomplishment is the most important factor. The position must permit a mortar section or platoon to accomplish its primary mission. Mortar unit leaders ensure that the potential position can support the mission.
- A mortar leader must understand the tactical situation, the supported unit's mission, the location of friendly units, and potential enemy threats.
- Maximum and minimum mortar ranges determine whether mortars can support from selected firing positions. Good mortar position selection allows the mortar to fire at least one-third of the weapon's range behind the forward line of their own troops to support retrograde, and two-thirds of their range to the front of the forward elements of the supported friendly force.
- Mortar positions give maximum coverage of the battalion or company AO. To do this, the mortar platoon leader begins by analyzing the defensive plan, locations of priority targets, and the enemy avenues of approach. To cover the supported unit, the mortar unit often positions itself near the center of the unit's position.



- Mortar crews face many threats on the battlefield, including CBRN hazards, counter-mortar fire, ground attacks, and air attacks. These are all considered when a mortar position is selected. The position facilitates both active and passive defense measures so it:
 - Cannot be hit by direct or low-angle indirect fire (defilade)
 - Can be entered without enemy observation.
 - Offers good cover and concealment.
 - Avoids obvious avenues of approach.
 - · Has more than one entrance and exit route.
 - Takes advantage of existing terrain features and natural obstacles.
- For survivability, mortar systems are mounted in defilade whenever possible. When in defilade there is mask (intervening object that screens the mortars from view of the enemy or target) such as a hill, trees, buildings, a courtyard, solid fences, or a rise in the ground. There may also be overhead interference from roofs or overhanging tree branches. When selecting the exact mortar position, the squad leader quickly checks for mask clearance and overhead clearance. All mortar leaders ensure that the concealment and positioning of the mortars does not interfere with their effective operation.
- Soil at each mortar position must be well-drained and firm so that mortar baseplates do not sink into the ground when the mortars are fired. If mortars are mounted on carriers, the soil must be firm for the carriers to remain stable when mortars are fired. Sandbags and other material can be used when firing from a hard surface, such as a road or other areas found in urban terrain

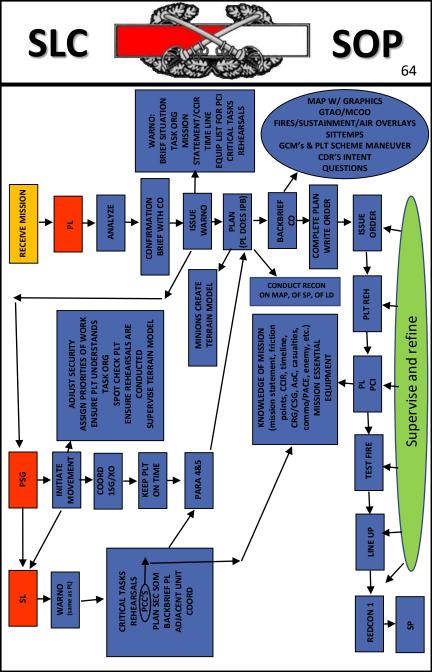


- The mortar element must be able to communicate with a supported unit, and platoon mortar squads must be able to communicate with an FDC. During reconnaissance, radio checks are made at the position to be occupied. Outside interference can degrade the radius that mortars can communicate with line-of-sight based radios. Terrain features and heavily populated areas are examples of outside interference.
- Mortar positions may be close to access routes to speed resupply and displacement as long as the position does not prevent concealment or limit mortar element survivability. When required, helicopter landing zones are identified for sustainment/logistics or maneuver purposes.



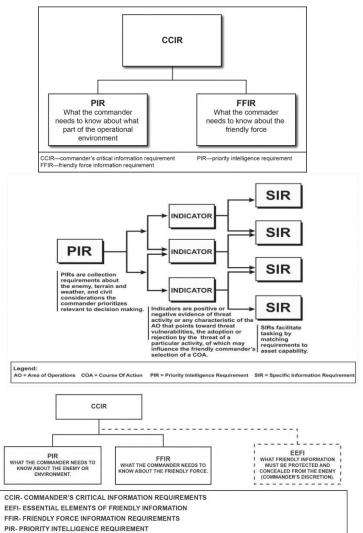
Mandated PCC list

- All soldiers and leaders will ensure the criteria below is accounted for and completed prior to SP for missions.
- Students may/should add to this IOT account for additional measures when conducting PCCs and PCIs to enable mission success.
- Meeting this criteria during operations will mitigate risk to mission and ensure our formations are "Fit to fight."
 - Vehicle/equipment PMCS complete (faults labeled on 2404)
 - Load plan complete (equipment stowed and tied down)
 - Weapon systems and optics secured and double checked (.50 CAL, LRAS, ITAS, M240, ETC)
 - Restraint systems present and operational (gunners restraint, seatbelts, TC hatch)
 - Internal/External COMMs
 - Fuel topped off
 - 1 DOS of CL 1
 - CLS bag present
 - Rollover/Fire drills complete
 - Green 2 complete





Information requirements





Information requirements

- Commanders base their initial information requirements on known decision points and the critical gaps identified during IPB in the mission analysis step of the MDMP.
- Early employment of reconnaissance assets oriented on the BCT's PIR will aid the brigade commander in understanding and visualizing the operating environment and inform course of action (COA) development and the targeting process as the BCT staff continues their MDMP.
- Commanders limit the number of PIRs and link them to decision points to focus the efforts of limited information collection assets. CCIRs tie directly to the scheme of maneuver and decision points.
- <u>IR</u> is any information element the commander and staff require to successfully conduct operations.
- <u>PIR</u> is an intelligence requirement, stated as a priority for intelligence support that the commander and staff need to understand the adversary or other aspects of the operational environment. Always linked to a decision point for the Commander.
- Friendly force information requirements identify the information the commander considers most important about the mission, troops and support available, and time available for friendly forces.
- Essential elements of friendly information are what commanders describe as information they want protected. An essential element of friendly information is a critical aspect of a friendly operation that, if known by the enemy, would subsequently compromise, lead to failure, or limit success of the operation and therefore protected from enemy detection. Although EEFIs are not CCIRs they have the <u>same priority.</u>
- <u>Indicators</u> in intelligence usage, is an item of information which reflects the intention or capability of an adversary to adopt or reject a course of action (JP 2-0). Indicators are positive or negative information regarding threat activity or any characteristic of the AO that—
 - · Points toward threat capabilities and vulnerabilities.
 - Points toward the adoption or rejection by the threat of a particular course of action or activity.
 - May influence the commander's selection of a course of action.
- <u>SIRs</u> are developed for each information collection asset based on the <u>capabilities</u> of the asset and the expected threat activity. SIRs provide specific information about specific threat activity (or lack thereof) at specific locations. SIRs help collection assets provide information specific and timely enough to make a difference in answering the PIRs.
- The <u>NAI</u> is the geographical area in which an indicator and its associated SIR to resides. NAIs must link to at least one PIR.
- <u>LTIOV</u> is time by which an intel organization or staff must deliver information to the requester in order to provide decision makers with timely intelligence. This must include the time anticipated for processing and disseminating that information as well as for making the decision.

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LTIOV	Last Time Infor	mation is of	value		2230 Local																															
FIRES	Our nearest Fires TGT #'s	and type			AB 0005	GA 123-456/Linear HE	2x120mm		AB 0010	GA 098-765/Linear Smoke	2x120mm		AB 0015	GA 345-678/Linear HEDP	3x155																					
ASSET	TRP Raven	(Triggered upon	visual contact)		×	×	×	×	×	×	×	×	×	×	×	х	Х	×	×	Х	×	×	×	Х	×	×	×					×	×	×	×	
ASSET	SIGINT	Prophet TM																										х		×						
PLT	PLT				1st	1st	1st	1st	2nd	2nd	2nd	2nd	3rd	3rd	3rd	3rd	×	×	×	х	×	×	×	Х	×	×	×					×	×	×	×	
SEC	SEC				٩	٩	в	в	٩	۹	в	В	A	A	в	В	×	×	×	Х	×	×	×	Х	×	×	×					×	×	×	×	
Ł	TEAM				A	8	٩	в	٩	в	A	В	A	в	A	В	Х	×	×	Х	×	×	×	Х	×	×	×					×	×	×	×	
NAI	Named Area of	Interest			NAI 1A	NAI 1A	NAI 1B	NAI 1B	NAI 2A	NAI 2A	NAI 2B	NAI 2B	NAI 3A	NAI 3A	NAI 3B	NAI 3B	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL		ALL		ALL	ALL	ALL	ALL	
INDICATOR	yes/no/numerical	evidence of threat or things	that may influence CO's	COA (DP) selection	20 or more BMP's in TRP AO												ID of 1 ACV BMP-1KSh	CO/STAFF vehide		BMP's massed				MFP's set within range of	our FLOT			Enemy Radio traffic				8 man dismounted patrols				
PIR	Broad questions that ID info	about enemy/terrain/weather/	civil considerations the CO	considers important, tied to DP	1. Is Russian Mech Inf BAT	staging for imminent counter	attack past PL Clown Shoes	in A-TRP 1-91 CAV's AO?																												
ď	Decision	Point			7A 1	5,																														

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Tactical Mission Tasks

AMBUSH (1-8)	A surprise attack by fire from concealed positions on a moving or temporarily halted enemy.
ATTACK BY FIRE (1-13)	Fires (direct and indirect) employed to destroy the enemy from a distance, normally used when the mission does not dictate or support occupation of the objective. This task is usually given to the supporting element during the offensive and as a counterattack option for the reserve during defensive operations. An attack by fire is not done in conjunction with a maneuvering force. When assigning this task the commander must specify the intent of fire – either to destroy, fix, or suppress.
BLOCK (1-20)	A tactical task assigned to a unit that requires it to deny the enemy access to a given area or to an enemy advance in a given direction or avenue of approach. It may be for a specified time. Units assigned this mission may have to retain terrain and accept decisive engagement. 2. An obstacle effect that integrates fire planning and obstacle effort to stop an attacker on a specific avenue of approach or to prevent an enemy from exiting an engagement area.
BREACH (1-23)	A tactical task where any means available are employed to break through or secure a passage through an enemy defense, obstacle, or minefield, or fortification.
(1-23)	A tactical task that involves maneuvering around an obstacle, position or enemy force to, maintain the momentum of advance. Bypassed obstacles and enemy forces are reported to higher headquarters.
(1-23)	To restrict operations to a narrow zone by use of existing or reinforcing obstacles or by fire or bombing. (Army) – A tactical task used to restrict operations to a narrow zone by the use of obstacles, fires, or unit maneuvering or positioning.
(1-28)	A tactical task to remove all enemy forces and eliminate organized resistance in an assigned zone, area, or location, by destroying, capturing, or forcing the withdrawal of enemy forces such that they cannot interfere with the friendly unit's ability to accomplish its mission. 2. To eliminate transmissions in a tactical zone on a tactical radio net in order to allow a higher precedence transmission to occur. 3. The total elimination or neutralization of an obstacle that is usually performed by follow-on engineers and in not done under fire. (Marine definition n/incl).
(1-37)	(JP 1-02) To stop hold, or surround the forces of the enemy or to cause the enemy to center an activity on a given front and to prevent his withdrawing any part of his forces for use elsewhere. (Army) A tactical task to restrict enemy movement.
COUNTERATTACK (1-39)	(JP 1-02) Attack by all or part of a defending force against an enemy attacking force for such specific purposes as regaining lost ground, or cutting off or destroying enemy advance units, and with the general objective of denying to the enemy the attainment of his purpose in attacking. In sustained defensive operations, it is undertaken to restore the battle position and is directed at limited objectives. (Army) – An attack with a reserve or lightly committed forward element that is launched after the enemy begins his attack, after the commander has identified the enemy's effort, or when resolute defense creates an assailable flank.
	No definition listed in 101-5-1
COVER (1-41) ← C C	$(JP\ 1-02)-1.$ The action by land, air, or sea forces to protect by offense, defense, or threat of either or both. [Joint definitions 2-5 non applicable] (Army) – 1. Shelter or protection from enemy observation that reduces the effects of enemy direct and indirect fine. 2. A type of security operation that protects the force from surprise, develops the situation, and gives the commanders time and space in which to respond to the enemy's actions.
DEFEAT (1-47) (No graphic available in 101-5-1)	A tactical task to either disrupt or nullify the enemy force commander's plan and subdue his will to fight so that he is unwilling or unable to further pursue his adopted course of action and yields to the will of his opponent.



Tactical Mission Tasks

DELAY (1-48, 1-49)	Delay in sector: Used to slow and defeatas much of the enemy as possible without sacrificing the tactical integrity of the unit; presents low risk to a unit. Delay in sector can be done by forces in the covering force area or in the main battle area. Delay from successive battle positions: Performed when a sector is so wide that available forces cannot occupy more than a single tier of positions at a time. Maneuver units delay continuously on and between positions throughout their sectors fighting rearward from one position to another, holding each as long as possible or for a specified time.
(1-51) DESTROY	A tactical task to render an enemy force combatineffective unless it is reconstituted. 2. To render a target so damaged that it cannot function as intended nor be restored to a usable condition without being entirely rebuilt.
(1-55) DISRUPT	A tactical task or obstacle that integrates fire planning and obstacle effort to break apart an enemy's formation and tempo, interrupt the enemy's timetable, or cause premature commitment of enemy forces, or the piecemealing of his attack.
(1-68)	A tactical task in which actions are taken to prevent the enemy from moving any part of his forces either from a specific/location or for a specific period of time by holding or surrounding them to prevent their withdrawal for use elsewhere. 2. A tactical obstacle effect that integrates fireplanning and obstacle effort to slow an attacker within a specified area – normally an engagement area.
FOLLOW (1-69)	A term used to broadly define the order of movement of committed or uncommitted combat, combat support, and combat service support forces in a given combat operation. The term is a tactical task in which maneuver control measures must be used.
FOLLOW & ASSUME (1-69)	An operation in which a committed force follows a force conducting an offensive operation and is prepared to continue the mission of the force it is following when that force is fixed, attrited, or otherwise unable to continue. Such a force is not a reserve but is committed to accomplish specified tasks.
FOLLOW & SUPPORT (1-69)	An operation in which a committed force follows and supports the mission accomplishment of a force conducting an offensive operation. Such a force is not a reserve but is committed to accomplish any and all assigned tasks: destroy bypassed units, relieve in place any direct pressure or encircling force that has halted to contain the enemy; block movement of enemy reinforcements; secure line of communication; guard prisoners, key areas and installations; secure key terrain; and control refugees.
GUARD (1-74) ← ━━━ G G ━━━ →	(JP 1-02) – a security element whose primary task is to protect the main element by fighting to gain time, while also observing and reporting information. (Army) – A form of security operation whose primary task is to protect the main force by fighting to gain time, while also observing and reporting information, and to prevent ground observation of and direct fire against the main body by reconnoitering, attacking, defending, and delaying. A guard force normally operates within range of the main body's indirect fire weapons.
INTERDICT (1-84)	Using fire support or maneuver forces; 1. To seal off an area by any means; to deny use of a route or an approach. 2. A tactical task which is oriented on the enemy to prevent, hinder, or delay the use of an area or route by enemy forces.
(1-86) ISOLATE	A tactical task given to a unit to seal off (both physically and psychologically) an enemy from his sources of support to deny an enemy freedom of movement, and to prevent an enemy unit from having contact with other enemy forces. An enemy must not be allowed sanctuary within his present position.



Tactical Mission Tasks

NEUTRALZE (JP 1-02) As pertains to military operations, to render ineffective or unusable. (Amry) - 1. To render safe mines, bombs, missiles, and booby traps. 3. To make harmless anything contaminated with a chemical agent. OCCUPY Image: Some set in the contaminated with a chemical agent. Image: Some set in the contaminated with a chemical agent. Image: Some set in the contaminated with a chemical agent. PENETRATE Image: Some set in the contaminated with a chemical agent. PENETRATE (JP 1-02) - In land operations a form of offensive, which seeks to break though the enemy's defense and disrup the defensive system. (Army) - A choice of maneuver. RELIEF IN PLACE (1-132) (JP 1-02) - An operation in which, by higher authority, all or part of a unit is replaced in an area by an incoming unit. The responsibilities by the replaced elements for the mission and the assigned 2000 or operation plan in concept format, or in concept summary and any associated Joint Operational Planning. The directed command will keep the referenced operation plan, operation plan in concept format, or in concept summary and any associated files will not be maintained unless directed by follow-on guidance. (Army) - A tatical task to occupy and hold a terrain feature to ensure it is free of enemy. A comparison or use. RETIREMENT (1-134) (JP 1-02) 1. An arrangement of ships, aircraft, and/or submarines to protect a main body or convoy. Loint definitions 283 on applicable] 4. A security element whose the enemy. SCREEN (1-137) (JP 1-02) 1. An arrangement of ships, aircraft, and/or submarines to protect a main body or convoy. Unit definitions 283 on applicable] 4. A s		
OCCUPY (1*173) Initial terrain area without opposition, and controls that entire area. 2. To remain in an area and retain control of that area. PENETRATE (1*120) (JP 1-02) - In land operations a form of offensive, which seeks to break though the enemy's defense and disrupt the defensive system. (Army) – A choice of maneuver.) RELIEF IN PLACE (1*132) (JP 1-02) - An operation in which, by higher authority, all or part of a unit is replaced in an area by an incoming unit. The responsibilities by the replaced elements for the mission and the assigned zone of operation pain in concept formand will keep the referenced operation pain, operation pain in concept formand will keep the referenced operation pain, operation pain in concept formand will keep the referenced operation pain, operation pain in concept formand will keep the referenced operation pain, operation pain in concept formand will keep the referenced operation pain, operation pain in concept formand will keep the referenced operation pain, operation pain in concept formational Planning and Execution System automated data processing files in an inactive library or status. That plan and its associated files will not be maintained unless directed by follow-on guidance. (Army) – A tactical task to occupy and hold a terrain feature to ensure it is free of enemy, occupation, or use. RETIREMENT (1*134) (JP 1-02) 1. An arrangement of ships, aircraft, and/or submarines to protect at main body or contact with the enemy and does not anticipate significant contact with the enemy. SCREEN (1*137) (JP 1-02) 1. An arrangement of ships, aircraft, and/or submarines to protect at main body or contact with the ste sub noticinat surveillance; provide early varning to the main body or contact withats to maintain surveillance; provide early		- 1. To render enemy personnel or material incapable of interfering with a particular operation. 2. To render safe mines, bombs, missiles, and booby traps. 3. To make
(1-120) enemy's defense and disrupt the defensive system. (Army) – A choice of maneuver. RELIEF IN PLACE (1-132) (JP 1-02) – An operation in which, by higher authority, all or part of a unit is replaced lements for the mission and the assigned zone of operations are transferred to the incoming unit. The incoming unit continues the operation as ordered. (JP 1-02) (JP 1-02) When used in the context of deliberate planning, the directed command will be seen the referenced operation plan in concept format, or in concept fourmat, or inclusted files will not concept fourmat, or inconcept foure fourmat, or inclusted files will not concep		natural terrain area without opposition, and controls that entire area. 2. To remain in
an area by an incoming unit. The responsibilities by the replaced elements for the mission and the assigned zone of operations are transferred to the incoming unit. The incoming unit continues the operation as ordered. (1-133) RETAIN (JP 1-02) When used in the context of deliberate planning. the directed command will keep the referenced operation plan, operation planin concept format, or in concept summary and any associated Joint Operational Planning System or Joint Operational Planning and Execution System automated data processing files in an inactive library or status. That plan and its associated Joint Operational Planning System or Joint Operational Planning and Execution System automated data processing files in an inactive library or status. That plan and its associated Joint Operational Planning System or Joint Operational Planning and Execution System automated data processing files in an inactive library or status. That plan and its associated Joint Operation, are used. RETIREMENT (1-134) (JP 1-02) An operation in which a force out of contact moves away from the enemy. (Army) – A form of retrograde operation; a directed reanvard movement by a force that is not in contact with the enemy and does not anticipate significant contact with the enemy. (JP 1-02) 1. An arrangement of ships, aircraft, and/or submarines to protect a main body or convoy. [Joint definitions 28:3 non applicable] 4. A security element whose primary task is to observe, identify, and report information, and which only fights in self defense. (Army) – A task to nainain surveillance, provide early warning to the main body; or impede, destroy, and harass enemy reconnaissance within its capability without becoming decisively engaged. SECURE (1-138) (JP 1		
(1-133) RETAIN keep the referenced operation plan, operation plan in concept format, or in concept summary and any associated Joint Operational Planning System or Joint Operational Computer Joint or Uses Joint Operational Computer Joint or Uses Joint Operation Joint Operational Planning System or Joint Operation Joint System or Joint Operation Joint Operating System or Joint Operation Joretaring Homes Joint O		an area by an incoming unit. The responsibilities by the replaced elements for the mission and the assigned zone of operations are transferred to the incoming unit. The
(Army) – A form of retrograde operation; a directed rearward movement by a force that is not in contact with the enemy and does not anticipate significant contact with the enemy. SCREEN (1-137) (JP 1-02) 1. An arrangement of ships, aircraft, and/or submarines to protect a main body or convoy. [Joint definitions 283 non applicable] 4. A security element whose primary task is to observe, identify, and report information, and which only fights in self defense. (Army) – A task to maintain surveillance; provide early warning to the main body; or impede, destroy, and harass enemy reconnaissance within its capability without becoming decisively engaged. SECURE (1-138) (JP 1-02) In an operational context, to gain possession of a position or terrain feature with or without force and to make such disposition, as will prevent, as far as possible, its destruction or loss to enemy action. (Army) – A tactical task to gain possession of a position or terrain feature with or without force and to deploy in a manner which prevents its destruction or loss to enemy action. The attacking force may or may not have to physically occupy the area. SEIZE (1-138) A tactical task to clear a designated area and obtain it for control of it. SEIZE (1-138) A tactical task in which a maneuver element moves to a position on the battlefield where it can engage the enemy by direst fire to support a maneuvering force by either support by fire, or by overwatching, or by establishing a base of fire. The maneuver element does not attempt to maneuver to capture enemy forces or terrain. WITHDRAW (1-163) Listed for both types of withdraw: (JP 1-02) – A planned operation in which a force in contact plans to disengage from the enemy and move in a direction away from the enemy.	\bigcirc	keep the referenced operation plan, operation plan in concept format, or in concept summary and any associated Joint Operational Planning System or Joint Operational Planning and Execution System automated data processing files in an inactive library or status. That plan and its associated files will not be maintained unless directed by follow-on guidance. (Army) – A tactical task to occupy and hold a terrain feature to
SCREEN (1-137) body or convoy. [Joint definitions 283 non applicable] 4. A security element whose primary task is to observe, identify, and report information, and which only fights in self defines. (Army) - A task to maintain surveillance; provide early warning to the main body; or impede, destroy, and harass enemy reconnaissance within its capability without becoming decisively engaged. SECURE (1-138) (JP 1-02) In an operational context, to gain possession of a position or terrain feature with or without force and to make such disposition, as will prevent, as far as possible, its destruction or loss to enemy action. (Army) - A tacical task to gain possession of a position or terrain feature with or without force and to deploy in a manner which prevents its destruction or loss to enemy action. The attacking force may or may not have to physically occupy the area. SEIZE (1-138) A tactical task to clear a designated area and obtain it for control of it. SEIZE (1-138) A tactical task in which a maneuver element moves to a position on the battlefield where it can engage the enemy by direst fire to support a maneuvering force by either support by fire, or by overwatching, or by establishing a base of fire. The maneuver element does not attempt to maneuver to capture enemy forces or terrain. WITHDRAW (1-163) Listed for both types of withdraw: (JP 1-02) - A planned operation in which a force in contact plans to disengage from the enemy and move in a direction away from the enemy.		(Army) - A form of retrograde operation; a directed rearward movement by a force that is not in contact with the enemy and does not anticipate significant contact with the
With or without force and to make such disposition, as will prevent, as far as possible, its destruction or loss by enemy action. (Army) – A tactical task to gain possession of a position or terrain feature with or without force and to deploy in a manner which prevents its destruction or loss to enemy action. The attacking force may or may not have to physically occupy the area. SEIZE (1-138) A tactical task to clear a designated area and obtain it for control of it. SUPPORT A tactical task in which a maneuver element moves to a position on the battlefield where it can engage the enemy by direst fire to support a maneuvering force by either support by fire, or by overwatching, or by establishing a base of fire. The maneuver element does not attempt to maneuver to capture enemy forces or terrain. WITHDRAW (1-163) Listed for both types of withdraw: (JP 1-02) – A planned operation in which a force in contact plans to disengage from the enemy and move in a direction away from the enemy.		body or convoy. [Joint definitions 2&3 non applicable] 4. A security element whose primary task is to observe, identify, and report information, and which only fights in self defense. (Army) A task to maintain surveillance; provide early warning to the main body; or impede, destroy, and harass enemy reconnaissance within its capability
SEIZE (1-138) A tactical task in which a maneuver element moves to a position on the battlefield where it can engage the enemy by direst fire to support a maneuvering force by either support by fire; or by overwatching, or by establishing a base of fire. The maneuver element does not attempt to maneuver to capture enemy forces or terrain. WITHDRAW (1-163) Listed for both types of withdraw: (JP 1-02) - A planned operation in which a force in contact disengages from an enemy force. (Army) - A type of retrograde where a force in contact plans to disengage from the enemy and move in a direction away from the enemy.	C	with or without force and to make such disposition, as will prevent, as far as possible, its destruction or loss by enemy action. (Army) – A tactical task to gain possession of a position or terrain feature with or without force and to deploy in a manner which prevents its destruction or loss to enemy action. The attacking force may or may not
SUPPORT BY FIRE (1-147) where it can engage the enemy by direst fire to support a maneuvering force by either support by fire, or by overwatching, or by establishing a base of fire. The maneuver element does not attempt to maneuver to capture enemy forces or terrain. WITHDRAW (1-163) Listed for both types of withdraw: (JP 1-02) - A planned operation in which a force in contact disengages from an enemy force. (Army) - A type of retrograde where a force in contact plans to disengage from the enemy and move in a direction away from the enemy.	SEIZE (1-138)	A tactical task to clear a designated area and obtain it for control of it.
WITHDRAW (1-163) WITHDRAW (1-163) W W W W In contact disengages from an enemy force. (Årmy) – A type of retrograde where a force in contact plans to disengage from the enemy and move in a direction away from the enemy.	BY FIRE	where it can engage the enemy by direst fire to support a maneuvering force by either support by fire, or by overwatching, or by establishing a base of fire. The maneuver
		in contact disengages from an enemy force. (Army) – A type of retrograde where a force in contact plans to disengage from the enemy and move in a direction away from
PRESSURE (1-163)	WITHDRAW UNDER	



Refuel on the move

- The Army's highly mobile force depends on fuel to sustain it on the battlefield more than it ever has in the past. A mobile and maneuverable force needs large amounts of fuel in a timely fashion to maintain its offensive posture. Combat forces must be refueled efficiently, rapidly, and safely. For combat forces to remain maneuverable, fuel resupply must be flexible and innovative.
- Although ROM can be tailored to other tactical situations, the two primary purposes of a ROM is to:
 - Provide a "fuel splash" for convoy movements to extend maneuverability to reach the intended destination when complete refueling operations are either not practical or unneeded.
 - Provide fuel between engagements to extend the time that U.S. forces can spend on the objective.

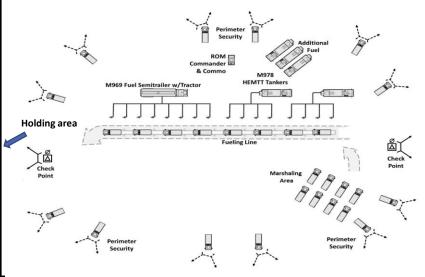
Establishing the ROM site

- Prior to selecting the site layout for the ROM, the information gathered from the METT-TC analysis should be considered. Make the most use of natural cover and concealment. Consider all environmental safety and mishaps when selecting the site to mitigate the risk.
- Ensure there is enough room in the site to allow minimum spacing between vehicles. Ensure the vehicles being refueled by the ROM have the most efficient entry and exit lane possible.



Refuel on the move

- Set up the vehicle holding/marshalling areas at locations before and after the ROM site. ROM site executors establish these areas using the following criteria.
 - Coordinate areas prior to the execution of the operation.
 - Use the area prior to the ROM site to organize the march column into serials of vehicles equal to the number of refueling points available.
 - Move the vehicles forward out of the holding area one serial at a time into position to receive the predetermined amount of fuel using "follow me" vehicles.
 - When each serial has received its allotted fuel, it moves to the holding area, after the ROM site. In the second holding area, organize the vehicles back into their convoy march elements or combat formations





Contact report

A contact report is issued immediately upon contact with a threat or unknown force in the area of operations. This alert, which can be very brief, takes priority over all other communications traffic and is primarily sent by radio.

State "CONTACT," followed by a description of the threat or unknown force, distance, and the cardinal direction from the Call Sign sending. A **BLUE 1 will be sent within 1 minute of initial contact report.**

BLUE 1/SPOTREP/SALUTE

LINE ALPI C	HA: Callsign:
LINE BRA	vo:
S	ize:
A	ctivity:
- L	ocation:
– U	Jnit:
- T	ime:
E	quipment:
Y 	our actions:
- - - -	our recommendations:
LINE DELT	FA: elf authentication:



BLUE 2/SITREP

(Only update line 1/8 & and the line that changed when sending a BLUE 2)

LINE 1 (As of DTG):

LINE 2 (Enemy Activity):

LINE 3 (Friendly Locations):

LINE 4 (Combat Vehicles):

LINE 5 (Defense Obstacles):

LINE 6 (Personnel Status): GREEN- 100%-90% / AMBER 89%-80% / RED 79%-60% / BLACK 59% & BELOW

LINE 7 (Class 3 and Class 5 by color code):

LINE 8 (Summary of intentions):



BLUE 4/BRIDGEREP (bridge, overpass, culvert, underpass, tunnel)

LINE ALPHA (Type and location [for a long tunnel, include both entrance and exit locations]. Use either a TIRS point or grid coordinates):

LINE BRAVO (Overall length):

LINE CHARLIE (Width of roadway):

LINE DELTA (Height restrictions):

LINE ECHO (Length and number of spans):

LINE FOXTROT (Computed classification):

LINE GOLF (Bypass locations and conditions. Use a Blue 5 report if necessary):



BLUE 5/CROSSREP (ford, ferry, other crossing site)

LINE ALPHA (Type and location. Use either a TIRS point or grid coordinates):

LINE BRAVO (Length of crossing in meters):

LINE CHARLIE (Usable width):

LINE DELTA (Current speed in MPS):

LINE ECHO (Maximum depth in Meters):

LINE FOXTROT (Bottom material and condition):

LINE GOLF (Capacity classification of any existing ferry equipment):

LINE HOTEL (Slope of entry bank):

LINE INDIA (Slope of exit bank):

LINE KILO (Other comments as necessary):



BLUE 7/ROUTEREP

(Scouts should send an initial route reconnaissance report (lines ALPHA & BRAVO) at the SP. At a minimum, the initial report should be followed by updates at any obstructions, at each phase line, and whenever a route change becomes necessary.)

LINE ALPHA (From location using GCM or TIRS):

LINE BRAVO (To location using GCM or TIRS):

LINE CHARLIE (Type of route): HIGHWAY "#1" / ROAD "#2" / TRAIL "#3" / X COUNTRY "#4"

LINE DELTA (Classification of route [incorporates MLC, height, and width]):

All squadron vics (70 MLC minimum) "#1" / Tracked vics only "#2" / CFVs (35 MLC minimum) "#3"

LINE ECHO (Seasonal limitations): All weather (usable year-round) "X" / Limited all weather (use limited during bad weather) "Y" / Fair weather (may be impassable during bad weather) "Z"

LINE FOXTROT (Rate of movement the route supports): Fast "1" / Slow "2"

LINE GOLF (Location and type of any critical reports [send the applicable report] report the following obstructions):

Curves with a radius of 45m or less:

Uphill slopes with grades of 5% or greater:

Width restrictions of 6M or less for one-way, 10M or less for two-way:

Overhead clearance of 4.3M or less:



BLUE 9/OBSTACLE REPORT

LINE ALPHA (Type of obstacle OR Obstruction):

LINE BRAVO (Location using Grid [for large & complex obstacles, send coordinates of the ends and turns):

LINE CHARLIE (Dimensions and orientation):

LINE DELTA (Composition):

LINE ECHO (Threat weapons influencing obstacle):

LINE FOXTROT (Observers actions):



BLUE 10/BYPASS REPORT

LINE ALPHA (Observer or source):

LINE BRAVO (Length, width, surface type, grade):

LINE CHARLIE (From and to coordinates):

LINE DELTA (Seasonal limitations [same as line 7 in ROUTEREP X/Y/Z]):

LINE ECHO (Bypass markings):

LINE FOXTROT (Observers actions):



Green reports (intelligence)

GREEN 2/SENSITIVE ITEMS REPORT/SENSEREP

The sensitive items report (SENSEREP) is sent daily at prescribed times (before and after significant movement, after significant events, and after any consolidation or reorganization). Items covered include machine guns, personal weapons, night vision devices, binoculars, nuclear, biological, and chemical (NBC) equipment, communications-electronics operating instructions (CEOI) materials, maps/graphics, and special equipment assigned to platoons for particular missions.

LINE ALPHA (Reporting unit):

LINE CHARLIE (Results of SI check, use the term "UP"):

LINE ECHO (Initials of person sending report):



Yellow reports (logistics)

YELLOW 1/EQUIPMENT STATUS REPORT/ESTAT

(Reported using the terms OPERATIONAL/INOPERATIVE/COMBAT LOSS)

WEAPONS

Line 1: Bayonet knife with scabbard, for M16 variants.

Line 2: Pistol, 9 mm, automatic, M9.

Line 3: Rifle, 5.56 mm, with equipment.

Line 4: Launcher, grenade, 40 mm, single shot, rifle-mounted,

detachable, with equipment.

Line 5: Machine gun, M2, caliber .50, heavy barrel (HB).

Line 6: Machine gun, 7.62 mm.

Line 7: Squad automatic weapon, M249.

Line 8: Grenade launcher, 40 mm, MK19.

Line 12: Command launch unit, AAWS-M.

Line 13-16: Used as needed for additional weapons assigned

VEHICLES & VEHICLE EQUIPMENT

Line 17: CFV, M3.

Line 18: Carrier, 107-mm mortar, self-propelled (less mortar), M106.

Line 19: Carrier, personnel, full-tracked, armored, M113.

Line 20: HMMWV, M1025/M1026.

Line 21: Tank, M1/M1A1/M1A2/M8-AGS.

Line 22-24: Used as needed for additional vehicles and vehicle equipment assigned

RADIOS

Lines 46-48: Used as needed for the different types of radios

MISCELLANEOUS EQUIPMENT

Line 52: Night vision goggles

Line 56: Binoculars, modular construction, military scale reticle, 7x50 mm, with equipment.

Line 57: Telescope, straight, military.

Line 61-63: Used as needed for additional equipment assigned

YELLOW 2/AMMUNITION STATUS REPORT

Reported using COLOR coded terms GREEN/AMBER/RED/BLACK. BLACK status requires an immediate follow-up with a YELLOW 2A

YELLOW 2A/AMMUNITION REQUEST REPORT

Line 1: Report as of DTGLine 34: JavelinLine 9: 50 CaliberLine 35: AT4Line 11: 7.62mmLine 37: TOWLine 25: 5.56mm ballLine 41: Claymore mineLine 26: 5.56mm tracerLine 45+: Additional ammunition requested

Line 29: Smoke grenade



Yellow reports (logistics)

YELLOW 3/POL STATUS REPORT

Reported using COLOR coded terms GREEN/AMBER/RED/BLACK. BLACK status requires an immediate follow-up with a YELLOW 2A

YELLOW 3A/POL REQUEST REPORT

Line 1: Report as-of DTG.	Line 12: Hydraulic fluid, FRH (qt).	
Line 2: MOGAS (gal).	Line 13: Oil, penetrating (qt).	
Line 3: Diesel (gal).	Line 14: Oil, PL-special (qt).	
Line 4: Oil, OE-10 (gal).	Line 15: Oil, PL-medium (qt).	
Line 5: Oil, OE-30 (gal).	Line 16: Bore cleaner (gal).	
Line 6: Oil, OE-50 (gal).	Line 17: Oil, LSA (qt).	
Line 7: Oil, OE-90 (gal).	Line 18: Grease, GAA (lb).	
Line 8: Antifreeze (gal).	Line 19: Grease, wheel bearing (lb).	
Line 9: Brake fluid (gal).	Line 20: Solvent (gal).	
Line 10: Hydraulic fluid, OHA (qt).	Line 21+: Addition POL products required	
Line 11: Hydraulic fluid, OHT (qt).		



Red 3 (Air MEDEVAC)

LINE 1 (LOCATION (SIX DIGIT GRID) OF PICKUP SITE):

LINE 2 (REQUESTER'S FREQUENCY, CALL SIGN, AND SUFFIX):

LINE 3 (NUMBER OF PATIENTS BY CATEGORY PRECEDENCE):

A-URGENT (evac required within 2 hours to save life) B-PRIORITY (patients medical condition will deteriorate, becoming urgent within 4 hours) C-ROUTINE (evacuation required, but patients condition is not expected to deteriorate for several hours)

LINE 4 (SPECIAL EQUIPMENT REQUIRED): A-NONE / B-HOIST / C-EXTRACTION EQUIPMENT / D-VENTILATOR

LINE 5 (NUMBER OF PATIENTS BY TYPE): L+ # OF LITTER / A+ # OF AMBULATORY

LINE 6 (SECURITY OF PICKUP SITE):

N-NO ENEMY P-POSSIBLE ENEMY (APPROACH WITH CAUTION) E-ENEMY TROOPS IN AREA (APPROACH WITH CAUTION X-ENEMY TROOPS IN AREA (ARMED ESCORT REQUIRED)

LINE 6 (PEACETIME) NUMBER AND TYPE OF WOUND, INJURY, OR ILLNESS:

LINE 7 (METHOD OF MARKING SITE): A-PANELS / B-PYROTECHNIC / C-SMOKE / D-NONE / E - OTHER

LINE 8 (PATIENTS BY NATIONALITY AND STATUS):

A-U.S. MILITARY / B-U.S. CIVILIAN / C-NON U.S. MILITARY / D-NON U.S. CIVILIAN / E-EPW

LINE 9 (NBC CONTAMINATION): N-NUCLEAR / B-BIOLOGICAL / C-CHEMICAL

Mechanism of injury

Signs & symptoms Treatment



Red 3 (Ground MEDEVAC)

LINE 1 (State EVAC):

LINE 2 (Location for pickup):

LINE 3 (# of casualties):

LINE 4 (Category of patient condition, encoded by letter designation):

A-URGENT (evac required within 2 hours to save life)

B-PRIORITY (patients medical condition will deteriorate, becoming urgent within 4 hours)

C-ROUTINE (evacuation required, but patients condition is not expected to deteriorate for several hours)



References

- ATP 3-20.98
- ATP 3-20.97
- ATP 3-20.96
- FM 3-98
- FM 3-55.93
- ATP 3-21.8
- TC 3-21.76
- ST 3-20.983
- ATP 3-09.32
- FM 17-98
- ATP 3-21.90
- FM 3-21.38
- ATP 3-37.34
- ATP 4-43

- Reconnaissance Platoon
- Cavalry Troop
- 6 Cavalry Squadron
 - Reconnaissance & Security OPs
 - Long-Range Surveillance Unit OPs
 - Infantry Platoon
 - Ranger Handbook
 - Reconnaissance Handbook
 - JFIRES
 - Scout Platoon dated 1994
 - Tactical employment of mortars
 - Pathfinder operations
 - Survivability Operations
 - Petroleum Supply Operations