

Battalion Combat Series:

Series Rules v1.1

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Introduction

The *Battalion Combat Series (BCS)* is a simulation of grand tactical warfare from the advent of mechanized armies in the late portion of World War I to the present.

It was created to show that there is a level of warfare that has its own distinct nature and behaviors **between** the tactical and operational levels of war. It is neither a large scale version of one, nor a small scale version of the other.

BCS attempts to find the best balance between simulation accuracy and playability and not compromise either unduly.

Enjoy!

v1.1 Preface

This version of the series rules mainly corrects the known errata and clarifications to the v1.0 rules. See page 37 as well.

Changes/corrections/additions in this rulebook from v1.0 are in Red. True changes from v1.0 are tagged with a margin symbol, as such (note that if the item appears more than once, generally only the most important mention is marked): ✓

The list below highlights a few important items.

- Formations which have a Fatigue Level 4 cannot obtain Second Activations. (3.5 & 10.4a)
- Combat Trains **must** be posted to the **rear** of the HQ to get the Optimal Distance DRM. (10.3c)
- Changed the term "Defensible Terrain" to be "Key Terrain".
- Units must endeavor to end their move in Command Radius. (4.2f)
- The 2-hex Coordination effect of moving HQs has been eliminated. HQs now get (and give) Coordination if they qualify for the 'Mixed' SNAFU DRM or meet its requirements temporarily during their Activation. (4.4a)
- The definition of 'who has Prepared Defense' now **excludes** all Move-side units, not just Unprepared ones.
- A new SNAFU DRM has been added that applies if any hex of the HQ to Combat Train's MSR is a Track hex. (10.1f)
- The definition of 'Mixed' for SNAFU (and now Coordination) (10.1e) has been changed to the Blob format, instead of Command Radius trace. This also takes the place of the award of Coordination by stacking as it is redundant.
- Installed the 'shortest Path' requirement which used to be in 10.2d for Crossing the Streams to the more general rule controlling MSRs, 10.3a (c).
- Only non-Support AV units and Stand Off Support units have Engagement Zones.
- Revised the Retreat rule (7.5)

1.0 Game Components & General Rules

1.1 The Game Map

1.1a Scale. Ground Scale is from 500m to 2 km per hex, depending on the terrain being shown. Combat Units are generally Battalions, with some Companies. Game Rules will state the exact scale for that game.

1.1b The Hex Numbering System.

All hexes are identified by a unique four-digit number in the form "column.row". If the game has more than one map, a letter identifies each, and the hex numbers for hexes on a given map are prefixed with the map's letter. For example, B10.10 identifies hex 10.10 on map B. The digits before the decimal point identify the hexrow, reading along the horizontal dimension from left to right. The digits after the decimal identify the exact hex along that particular hexrow, reading along the vertical dimension from bottom to top. Not every hex within each is numbered. Each fifth hex (xx.05, xx.10, xx.15) is numbered to create grid lines. For example, to find hex 29.17, follow the grid line for xx.15 until you find the 29.xx hexrow, then count up two hexes to 29.17.

1.1c Map Edge Hexes. Only hexes with at least half of the hex showing are playable.

1.1d Off Map Movement. Unless specifically allowed in a given game, units can neither exit the map to re-enter later nor conduct any off-map movement.

Exception: See 7.5h for units that Retreat off the map.



The Gamers
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Unit Key

HQ

Unused Side

Command Radius

Activation Roll

Formation ID

MA (Truck type)

Arty Points

Used Side

Formation ID

Unit Size Indicators

- I Company
- II Battalion
- KG Kampfgruppe
- TF Task Force
- Tm Team
- Grp Group
- III Regiment
- X Brigade
- XX Division
- XXX Corps
- (-) Portion of the larger command

AV Unit

Steps Available

Unit Size

Hard (Yellow Symbol)

Formation ID

Armor Value (Red AV)

Range

MA (Tactical type)

Action Rating

Limited AV

Breakthrough Armor (Red Bar)

No Rebuild

Light AV

Limited Armor Value

Standoff AV

Standoff Armor Value

Support Only

Support

Dual

Infantry

Deployed Side

Assault Arrow

MA (Leg type)

Move Side (here Unprepared)

Action Rating

Static Unit

Combat Trains

Regular

Ghost

- | | | | | | |
|--|--------------------|--|----------------|--|---------------------|
| | Infantry | | Armor or Pz | | 90mm Guns |
| | Abn Infantry or FJ | | Tank Destroyer | | 88mm Guns |
| | Glider Inf | | Jagdpanzer | | AT |
| | Arm Inf or PG | | StuG | | Arm AA |
| | Bicycle | | Tiger | | Engineer |
| | Motorized Infantry | | Sturm-tiger | | Abn Engineer |
| | Commando | | Jagdtiger | | Arm Engineer |
| | Voraus | | Hetzer | | Pioneer |
| | Machine-Gun | | Light Tank | | Arm Recon |
| | Police | | FKL Tiger | | Motorcycle Infantry |
| | Ost | | Marder | | Motorcycle Recon |
| | Ersatz | | Brummbär | | Arm Car |
| | Ski Troops | | Cavalry | | |

Markers

	Prepared Defense		Blown Bridge		Coordination		Mines		Step Loss (5 remaining)
	Objective		Bridge tried and did not blow.		MSR Blocked Level 1		Traffic Stopped		Game Turn
	2 Arty Asset Points		Red Support		Dropped Support		March OBJ		Activation Marker
	1 Air Point		Limited Support		Fresh Fatigue		Temporary Dropped Support		Weather (one of several possible types)
	Formation Activation Marker		Stand Off Support		Fatigue Level 2		Bridge Not Open		Recon Screen

Unit types and markers are not necessarily in all series games, only where needed. Specific games may require further, specialty items.

1.2 The Counters

Important: See the *Unit Capabilities Chart* for a general list of the combat functions of the various unit types. The Chart does not supersede specific mentions and additional restrictions in the rules themselves.

1.2a Unit Counter Ratings.

Assault Arrow: This symbol is used to identify units with Attack capability. Only a unit with an Assault Arrow can be the Attack unit for a *regular* Attack.

Movement: The maximum available number of Movement Points is the unit's Movement Allowance or MA. The color of the number shows the Movement Class of the unit on the side showing. A Red MA is Tactical, a Black MA is Truck, and a White MA is Leg.

Armor Value & Range: Rated by vehicle and gun. Vehicles have only one number (yes, this means a loss of some tactical detail when defense is significantly different from offense). Range is one hex if no value is printed.

Steps: A measure of the resilience of a unit, as the number of step losses a unit can take in combat and still function. Units are rated for their size and organization.

Action Rating: A rating from 0 to 5 (best) representing the leadership, training, morale, and other soft qualities of the unit.

1.2b Unit Counter Sides. Most unit counters have two printed sides. Usually the distinguishing feature between them is the Movement Allowance. The side with the lower MA is called 'Deployed' or 'Deployed-side.' The one with the higher MA is called 'Move' or 'Move-side'. **Units with only one printed side to their counter are considered to be Move-side.** The side printed on the front of the physical counter will be the side that unit uses most.

Important: Whichever side is currently facing up defines the unit's capabilities. See the *Unit Capabilities Chart*.

1.2c Unit Types and Classes.

General:

- **Infantry.** Any unit that has no printed AV number is *Infantry* for purposes of the terrain DRM on the *Combat Table*.

- **Recon.** Any unit with a "Cavalry Slash" in its unit symbol and any additional unit types designated as Recon in the Game Rules.

- **Artillery.** Artillery is abstractly given as "Arty Points" on the various HQs and "Arty Asset Points" the player assigns to his HQs. Artillery

is not represented by explicit unit counters.

- **AT Guns.** Only some heavier AT Guns are shown as separate units. Lighter guns are dispersed inside units.

- **Headquarters (HQs).** Headquarters represent the command and control hub of a Formation.

- **Combat Trains.** Combat Trains are the Formation's forward logistical establishment.

- **Hard Unit.** Any unit which has a Yellow background to its unit symbol is a Hard unit. This is a judgment value based on the vehicles involved, open-top armor or WW2 mech infantry would *not* be Hard.

- **Non-Rebuildable Units.** Any unit with a Yellow dot in back of its Action Rating cannot receive Replacement Points. If destroyed, such units cannot return to play.

AV Specific:

- **Armor Value Units (AVs).** An AV unit is any unit with an *Armor Value*.

- **Dual Unit.** A unit showing both an Assault Arrow **and** an Armor Value.

- **Support.** These unit's AV weapons are dispersed among the Formation's non-AV units. Support can help these units in combat.

- **Red AV Units.** Any AV unit with a Red AV showing. These units are more capable of offensive action than the other varieties of AV units.

- **Limited AV Units.** Any AV unit showing an "outlined" AV. These units are more defensive in nature than Red AV units. Limited AV units suffer a penalty on the *Engagement Table* when they are the Firer.

- **Light AV Units.** Any AV unit with a Light AV (White) showing. **These units are more defensive in nature than Red AV units, but are equipped with low caliber weapons (MGs, usually) on vehicle mounts. They are unable to initiate Engagements as the Firer. Light AV units are the same as Limited AV when in Support.**

- **Stand Off AV Units.** Any AV unit with a Black AV showing. These units are more defensive (like Limited AV), but have a unique ability to fire 'offensively' **and provide Engagement Zones when in Support.**

- **Breakthrough AV Units.** Any AV unit with a 'Breakthrough Armor designation' on its unit symbol. These units have heavy armored vehicles designed to penetrate strong defensive positions. They have a special DRM in Shock Attack.

1.2d Unprepared Units. These are units with *neither* an Assault Arrow nor AV showing. Unprepared units lose a number of functions:

Unprepared units...

...have no ZOC

...cannot Attack or Assist an Attack

...cannot use Prepared Defense

...have no Support present

...cannot 'jump' HQs or Combat Trains

However, they **can** still...

...spot for Barrages

...count as a unit in a Defender's hex

1.2c Step Losses and their Effects.

a) Place a Step Loss marker under a unit counter that has lost any steps. Use the number facing "up" on the marker to show the number of steps **remaining** to the unit. When the marker goes to zero (or below zero), the unit is removed from the map.

b) Any unit without a marker is assumed to be at its full printed strength.

c) There are no other effects of step loss beyond the eventual removal of the unit.

1.3 The Rules

Every BCS game contains both Series and Game rulebooks. The Series Rules contains the rules generally applicable to *all* series games. The Game Rules give the details needed for a specific game, including special rules, scenarios, and set-up information.

Where the Game Rules and the Series Rules disagree, the Game Rules take precedence.

1.3a Organization. Rules are numbered by section and case. Each major rules grouping is a section; a paragraph within a section is a case. The number 4.2 would, for example, refer to section 4, case 2. A specific case may contain a number of statements. Statements within a case are lettered, as in 4.2a, 4.2b, etc.

1.3b Repetition. Once stated, a rule is repeated in another section only if needed for clarification in *that* section.

1.3c Rounding. Players will on occasion be required to round numbers to whole numbers. Unless specified otherwise, if the fractional part is less than .5, round down. If the fractional part is .5 or more, round up.

1.3d Cumulative Effects. In all cases where a unit is subject to multiple DRMs, those effects are cumulative.

1.3e BCSCrib Notes. The *Crib Notes* provide a brief summary designed to answer common questions during play. They do not include all the caveats and special cases that might apply; consult the Series Rules for full detail. If ever there is a conflict between the Crib Notes and the Series Rules for any reason, the Series Rules take precedence.

1.4 Setup Notes

The Game rulebook contains set-up information for the various scenarios presented. Except as amended by special notes in the Game rulebook, the following are **always** true:

- A) “w/i X” means to set-up a given unit at or within X hexes of the location given.
- B) Units never start in violation of the Stacking Limit or in terrain they could not enter during movement.
- C) Units generally start at full strength. If a number is shown in brackets, such as “[3]”, it is the unit’s current available Steps. If no value is given, the unit is at full strength.
- D) Units can set-up anywhere within a zone specified to **include** the boundary lines.
- E) Units can set-up on either counter side, unless stated otherwise in the set-up. Units start in Support (or not) strictly as called for by the set-up. A unit cannot set-up on a counter side that its hex’s terrain would prohibit.
- F) If a unit is listed as ‘in Support’ you can place it near the HQ or off map as desired and apply the appropriate Support marker to the HQ.
- G) **Note that the Pre-Turn Phase of the first turn of a scenario is frequently modified: Weather and the First Player Determination may be pre-determined and there is no roll for Repl Points. Conduct the Assignment Phase as per rule 2.1 Assignment Phase’s Important Note.**

1.5 Fog of War

1.5a Players are free to look at the top enemy *Combat Unit* of any stack and its values, but this freedom *does not extend* to any other unit in the hex or the number of steps the unit has remaining.

1.5b At a minimum each HQ should display that Support is available. Available Arty Asset Points, Prepared Defense, and Air Points can be hidden from the opposing player’s view. However, the player can display the contents of HQs adjacent to each HQ’s hex to make play go faster.

1.5c All die rolls are normally made in the open, after announcing their purpose. If players agree, they can make certain rolls in secret to add to the fog of war.

1.6 Terms

• **Activation.** The function of a single Formation following the Activation Sequence of Play which must be completed before the next enemy Formation can function.

• **Assigned/Unassigned.** The status of independent units and Arty Asset Points as being attached (or not attached) to a specific Formation. (9.1k)

• **Attack by Fire.** The effect of AV unit fires on non-AV units. (8.3)

• **AV ZOC.** A type of ZOC generated by AV units. They come in two flavors: Real and Support AV EZOCs, depending on the type of AV unit creating it. AV ZOCs affect enemy Tac MA units more than regular ZOCs. (6.0h)

✓ • **Blob.** The area on the map containing the units of a given Formation ignoring its Combat Trains and any Out of Command Radius units.

• **Blocking Terrain.** Terrain that blocks the minimal ‘line of sight’ needed to make Engagements or spot Artillery Fires at ranges greater than 1 hex.

• **Combat OBJs.** An OBJ marker placed to generate an OBJ Zone allowing Attacks and Barrages. (4.3)

• **Command Radius.** The maximum distance from an HQ at which units operate normally. (4.2)

• **Combat Unit.** Any unit that is not an HQ, Combat Trains, or Support.

• **Coordination.** The mild reduction in Formation effectiveness due to Formations operating in an area being used by other Formations.

• **Crossing the Streams.** A condition when the path from more than one Formation between their HQ and Combat Trains must share any common hexes. (10.2d)

• **Deployed-side.** Any unit with a different MA on each counter side can be

Deployed. The lower MA side is the Deployed-side. The other side is the Move-side. A unit with only one printed side is assumed to be Move-side.

• **Destruction Mission.** Fires by one or more Arty or Air Points to destroy enemy steps using the *Barrage Table*.

• **DRM.** Die (or Dice) Roll Modifier.

• **Double OBJ Zone (aka Double Tap).** The OBJ Zone created by using TWO OBJ markers in one hex. This generates DRMs on the *Engagement* and *Combat Tables*.

• **Drop Support (Drop).** A result from the *Engagement Table* that removes a stack’s access to its dedicated Support weapons for a time. (7.1L)

• **EZOC (Enemy Zone of Control).** The ZOC around enemy units which generally affects the movement or Retreat of friendly units. (6.0)

• **Engagement.** Fires available to AV units which are used to destroy enemy AV unit steps, drop enemy Support, and sometimes to allow a friendly unit to continue to function. (7.1)

• **Engagement Zone.** The area around a non-Support or Stand Off Support AV unit (and only those types) where it could **INITIATE** an Engagement. (6.1)

• **Entry Area.** Hexes identified as entry locations for reinforcements.

• **Failure Flip.** The conversion of a Failure SNAFU roll into a Recovery Activation. (10.4c)

• **Fatigue.** A measure of a Formation’s capability reduced by movement and combat. (10.4)

• **Finished.** *Finished* refers to a unit’s capabilities in the current Activation. A *Finished* stack contains only *Finished* units. A *Finished* unit **cannot** move, Recon, initiate Engagements, attack, or assist attacks. *Finished* units **can** spot for Barrages. (3.3e)

• **Fire Events.** A count of the number of active combat actions a unit may initiate during an Activation. Units STOP after TWO Fire Events. (7.0d)

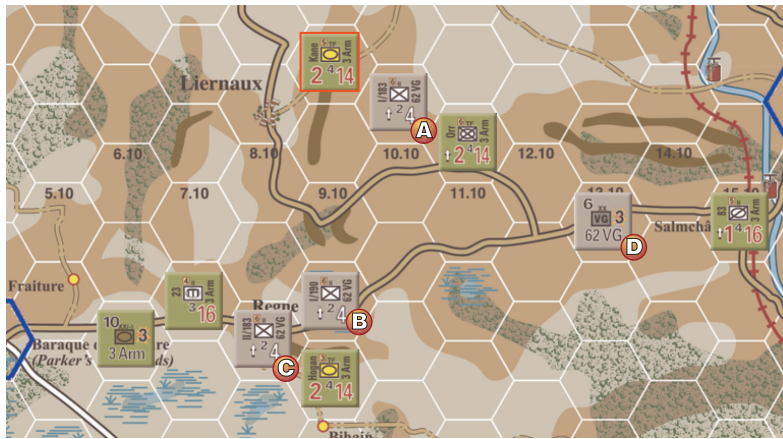
• **Formation.** A collection of units and an HQ usually with its own Combat Trains.

• **Fresh.** A Fatigue State showing a completely rested and provisioned Formation. (10.4d)

• **Ghost Side.** Combat Trains which are disrupted due to their movement or displacement caused by the enemy. (10.3d)

• **Independent Unit.** A unit without its own permanent Formation printed on the right side of its unit symbol. These units

Safe Path



The 62 VG is severely compromised.

Unit A is obviously unable to trace a Safe Path to the HQ.

Unit C has a Safe Path to the HQ because of the negation provided by Unit B. Both Leg MA units could use a Safe Path through the Swamp at 11.09. Unit B also has a Safe Path, even though the HQ, itself, does not in both these cases.

If either C or B had an MA which is Prohibited in a Swamp, that unit would be unable to trace a Safe Path.

The HQ, at D, cannot provide the 3 hexes of MSR (the Combat Trains are assumed to be off map to the east), so it has no Safe Path itself if that hex's Safe Path needs to be determined.

must be assigned to a Formation in order to function.

- **Key Terrain.** Specific Terrain types

✓ listed on the *Terrain Effects Chart* that allow units to 'stand fast' in *Situational Combat Table* results.

- **March OBJs.** An optional OBJ marker placed to control HQ movement and the routing of units. March OBJs identify the general location of the Formation's planned movement. (4.3e)

✓ • **Mixed Formations.** A DRM on the SNAFU Table applied when multiple Formations share the same area on the map. (10.1e)

- **Move-side.** A unit's larger MA side is the Move-side. HQs are assumed to be on their Move-side at all times. If a unit has only one printed side, it is considered to be Move-side. (5.6)

- **MSR (Main Supply Route).** The path of hexes from a player's Supply Sources to his Formation HQs keeping their logistical needs continuously supplied. (10.2)

- **OBJ.** OBJ (Objective) markers are used to define each area of active combat operations or large scale unit movement. (4.3)

- **OBJ Zone.** The 2-hex radius around a Combat OBJ marker where combat operations can occur. (4.3c)

- **Prepared Defense.** A voluntary defensive posture that increases defense, but reduces the Formation's freedom of action. (4.5)

- **Regular Attack.** An Attack conducted only by Assault Arrow (or Dual) units. (7.2)

- **Reinforcements.** New arrivals which enter the game on specific Game Turns according to the Order of Arrival. (9.3)

- **Replacement Points.** Points used to rebuild units from the Dead Pile or restore destroyed unit steps on the map. (9.4)

- **Roads.** The use of the words 'road' or 'roads' in these rules designates all road types, including Tracks and Railroads. If a specific type of road is being referred to, it will be both capitalized and stated explicitly (e.g., Secondary Road). If a type of road does not apply to the rule, that type will be specifically mentioned (for example: non-RR roads includes all roads which are not Railroads).

- **Safe Path.** A path of contiguous hexes from a unit to its HQ.

Each Safe Path hex must be free of enemy units and EZOCs which fully affect the Movement Class involved.

- Leg MA: All EZOCs
- Truck MA: All EZOCs
- Tac MA: Real AV EZOCs only, not Support AV EZOCs.

Friendly units negate EZOCs for Safe Path. Engagement Zone hexes do not affect a Safe Path. Unassigned independent units and units on the Map Edge are always assumed to have a Safe Path.

Safe Path can never be longer than **Command Radius + 5 hexes** from the unit to the HQ.

If units in the HQ's hex must check for a Safe Path, the Safe Path must be at least 3 hexes long and must follow the roads leading toward the Formation's Combat Trains (or the nearest other Formation Combat Trains, if the HQ's own are not on the map). If the Safe Path must extend beyond the Combat Trains, continue following the roads making up the MSR.

The Safe Path must be traversable by the unit's MA Type (with the special cases below):

- **Flipping to a Tac/Truck MA-type side:** Use Tac/Truck MA.

- **AV Repl Points or Support Establishment:** Use Tac MA.

- **Non-AV Repl Points:** Use Leg MA.

- **Shock Attack.** An Attack conducted on the fly by Tactical MA units. (7.3)

- **SNAFU Roll.** A dice roll on the SNAFU Table to determine a Formation's combined level of logistics and friction for a given Activation. A Formation can Pass, Partial Pass, or Fail its SNAFU Roll. One that partially passes or fails suffers adverse movement and combat effects. (10.1)

- **Stack.** A "stack" is one or two units in the same hex. No more than two units may occupy a single hex. (5.5)

- **STOP.** STOP is a movement term. It applies in some Terrain Effects, some Traffic effects, when units expend both their Fire Events, and sometimes when units attempt to move near enemy units. STOP ends a unit's movement and ability to conduct Shock Attacks or Recon. STOP has no effect on any remaining ability to spot for Barrages, initiate Engagements, Attack, Attack by Fire, or Assist attacks. See also Terrain Effects (5.1g), Fire Events (7.0d), and near enemy units (6.0g).

- **Stopping Engagement.** A requirement to 'win' an Engagement after entering a Real AV EZOC so that a unit can continue to function. Support AV EZOCs do not require Stopping Engagements. (6.0i)

- **Support.** Small numbers of detached vehicles or weapons systems distributed to the sub-units of a Formation. (9.2)

- **Suppression Mission.** Fire by a single Arty or Air Point used to create the +2 Suppression DRM on the *Combat Table*. Suppression Missions *never* generate step losses and make no roll on the *Barrage Table*. (8.0f)

- **Traffic.** A condition where Combat leaves an area too congested to be easily traversed. (5.1g)

- **Unit.** Units are Combat Units, HQs, and Combat Trains. Game markers, Arty Asset Points, and Air Points are **not** “units” unless a rule specifically states otherwise.

- **Unprepared.** A unit not currently arrayed for combat. (1.2d)

- **w/i X.** This notation in the rules always means “at or within X”.

- **Zone of Control (ZOC).** The hexes directly adjacent to certain units. (6.0)

2.0 Game Turn Sequence of Play

Each Game Turn is made up of the following phases, in order:

2.1 Game Turn Sequence of Play Outline

1) Pre-Turn Phase

1. Reinforcements & Weather

Both players place Reinforcements as listed on the *Order of Arrival Charts*. Roll for Weather effects, new Air Points, and Replacement Points. Apply all available Replacement Points.

2. Assignment

Both players can change units to (or from) Support and/or assign (or reassign) Arty Asset Points (8.0d) and independent units (9.5).

Important: With the exception of newly arriving Reinforcements, there is **no Assignment Phase** at all on the first turn of any scenario. Yes, that means no assignment/unassignment functions can be conducted on any first turn.

3. First Player Determination

If not assigned by the scenario, each player rolls two dice to determine who plays the first Activation of the new turn. The player with the greater roll wins and can choose to take or not take the first Activation. Re-roll on any ties.

2) Activation Phase

Players alternate Activating Formations (3.1) until the turn ends.

3) Admin Phase

Flip and/or orient HQs to their Unused sides.

4) Game Turn End

3.0 The Activation Phase

3.1 Formation Activations

3.1a In the *Activation Phase*, Players alternate Activating Formations and conducting those Formations’ movement and combat. Only one Formation Activates at a time. The Activation Checklist ensures players consider all steps in an Activation.

3.1b The *Active* player conducts the current Activation; the other player is the *Inactive* player.

3.1c The *Active* Player makes all dice rolls.

3.1d In group games, players can run multiple Activations at the same time, provided the different Active Formations are not actually interacting with each other.

3.2 Activation Phase Sequence of Play

3.2a In general, the player is free to use his stacks and artillery in any order he likes, but he must finish moving one stack before starting another and cannot use any stack or Artillery/Air Point more than once in a single Activation. Conduct the *Activation Phase* by following the sequence of phases below, in order.

A given Formation can Activate *twice* in a given Game Turn, but the Second Activation, if any, must be attempted *immediately* after the Initial Activation.

a) **Initial Activation.** Identify the Formation to activate, flip the HQ to its Used side (the one with the white stripe). If the Formation HQ *started the turn* on its Used Side, skip to step h) below.

b) **Preparation.** Declare and execute a Fatigue Recovery Activation (10.4c) if desired. Add, remove, or increase the level of the Formation’s MSR Blocked marker as needed. Create, Maintain, or Remove a *Prepared Defense*. **Determine if the Formation is Mixed (10.1e) and apply needed Coordination markers.**

c) **SNAFU.** Make a die roll on the *SNAFU Table* to determine the Formation’s SNAFU Result. Remove the Formation’s Coordination marker after rolling.

d) **Initial Actions.** Place OBJ markers, based on their SNAFU Result availability.

e) **Activities.** Conduct the Formation’s Stack Activities. Non-Finished Stacks conduct their choice of Movements, Engagements, Regular Attacks, Shock Attacks, Barrages, and Attacks by Fire. Move Combat Trains, flipping to or from Ghost side as needed.

f) **Clean Up.** Remove all OBJ, Traffic Stopped, and Temporary Support Dropped markers. **If Combat Trains are NOT in a Legal Hex, remove them.**

g) **Fatigue & Isolation Effects.** If *Fatigue Increase* is possible (10.4) roll to see if it occurs. Apply any *Isolation Effects* (10.5).

h) **Second Activation.** If the player wishes to attempt a *Second Activation* (3.5). Orient the HQ to Done when this is chosen (even if the roll fails). Conduct the Second Activation starting with b) above if successful. Go to the next step if the roll fails or the player chooses to forego a Second Activation.

i) **Play continues with the other player.** When finished, play goes to the opposing player. Follow the above sequence for his Formation.

j) **Repeat.** Continue until both sides are “done” (3.6).

3.2b Basically, each player activates a Formation and uses its units to move and conduct combat. He can use available Artillery or Air Points before, during or after each unit’s move. He continues to do these things until he runs out of units and Arty/Air Points to use from the current Formation, then play passes to the other player for

his next Formation's Activation. Continue alternating Formation Activations until both sides are "done," then execute the *Admin Phase* and start the next turn.

Just to be clear, the player *cannot* Pass when it is his turn to Activate (3.6a)

3.2c Frequently one side will have more Formations to Activate than the other. In this case, when one side runs out of Formations to use, the other will continue to Activate repeatedly until he Activates all his Formations at least once (3.4b). Only then is the turn completed. To be clear, the turn *does not end* because one side runs out of Formations.

3.3 Stack Activation

3.3a All references to 'stacked units' in this section refer to stacks of units from the **same** Formation. If units of two Formations stack, only those belonging to the currently Active Formation can function in any way.

3.3b Stacked units can split up into separate stacks before—or after—beginning to move together.

If done before movement, each unit moves and functions freely out of the common starting hex.

If the stack splits after beginning its move together, follow the STOP instructions below for a stack created *during* a move.

New stacks can be created during the Activation and operate **together** as a stack after they "join up." To join up, one of the units starts to move while the other stands fast. When the moving unit enters the other's hex, the two can continue the move together as a stack. Such a stack can also split during its move, but to do so, one unit must STOP its move while the other continues. You cannot go back to the unit that was 'dropped off' and move it some more.

3.3c One stack must complete its movement and Fire Events before another stack begins. Once another begins, the player cannot go back to a previous stack, even if MPs or Fire Events remain. The only things a stack can do after its chance to move and use Fire Events is to Attack, Assist an Attack, or spot for Barrages.

3.3d A unit or stack which has not *Finished* could, given other rules and requirements:

- Move normally provided it has MA remaining and has not Stopped
- Execute Fire Events, including Shock Attacks (7.0d)
- Conduct or Assist a Regular Attack
- Attack by Fire
- Recon

...*Finished units and stacks cannot do any of these activities.*

3.3e A stack becomes **Finished** when it:

- Conducts or Assists a Regular Attack.
- Chooses not to—or is unable to—execute a required Engagement.
- Fails in its attempts to free itself from a STOP where Stopping Engagements (6.0i) are required.

Note that a *STOP* **does not** preclude executing remaining Fire Events and/or *Finishing* by some other means, but anything that **Finishes** a unit means the unit cannot do *anything* later, even if Movement Points or Fire Events remain unspent. **Exception:** Finished units can *still* spot for Barrages.

Play Note—Stack Sequencing:

You can, for example, move stack A, move stack B, fire a Barrage, move stack C, attack a hex using A with B as Assist (A enters the hex after winning), fire another Barrage (using A as a spotter from its new hex), move stack D through the hex cleared by the attack, use D to initiate Engagements against some deeper enemy hex, move stack E through the same hole, attack with stack C with an assist from E... and so on.

What you can't do, for example, is move stack A some MPs, fire a Barrage, move stack B... and then go back to finish stack A's remaining MA, etc.

You also cannot move stack A, then move stack B, and then go back to stack A to conduct Engagements, Shock Attacks, or Attacks by Fire. Those must be done before starting a new stack.

You can, however, move stack A some, do an Engagement, Shock Attack, or Attack by Fire, move stack A some more and do another Engagement, Shock Attack, or Attack by Fire and then call a Barrage. As well as move stack B so that A and B can make a regular Attack (as Attack and Assist).

Important: Once a unit ends its movement (provided it is not *Finished*) and another unit starts its movement, the first unit can no longer conduct an Engagement, Shock Attack, or Attack by Fire, although it can still Attack, Assist an Attack, or spot for a Barrage.

3.4 Activating a Formation

3.4a Only one Formation can be activated at a time.

3.4b Each Formation must Activate at *least once* in a game turn—but it could activate twice in a game turn. A Formation which is listed as 'Done' in the set-up is exempt from this requirement on that first turn. A Formation listed as 'Used' in the set-up **must** attempt a Second Activation (3.5).

3.4c The Initial Activation of a Formation in a turn requires no die roll. A Second Activation (if any) requires an Activation die roll. See 3.5.

3.4d Players can only select Formations with HQ's marked Unused or Used for Activation. The player cannot select a Formation with its HQ marked as Done.

Play Note—HQ's Done Status:

Normally, an HQ's status as being Done is shown by orienting the HQ's counter opposite the way its units are arrayed (with its banded 'Used' side showing). However, since all Second Activations must occur immediately after the Formation's Initial Activation, the designation can be ignored on most game turns (if you aren't already working with a Formation that has its Used side up, it cannot be Activated). The exception is the first turn of some scenarios or Reinforcement Placement, where Formations might begin already Used but still need to attempt to Activate. In that case, it is important to know who is 'just' Used and who is actually Done. At other times, just being flipped to Used can be enough of a marking to know who is also Done.

3.5 Second Activations

3.5a You can activate a Formation up to twice in a game turn. **Exception: Formations with a Fatigue Level of 4 cannot conduct a Second Activation (10.4a).**

Except for Formations which set-up or arrive with their HQ Used, all Second Activations **must** be done immediately upon finishing their initial Activation (and before the enemy can get a new Activation or any other friendly Formation can Activate). Formations with their HQ setting up or arriving Used can obtain only one Activation and it is handled as a Second Activation as described below.

3.5b To conduct a Second Activation, roll one die. Add one (1) to the roll if the Formation is Fresh (10.4d). If the modified roll is greater than or equal to the Activation Roll number (printed on the HQ's counter), the Formation successfully activates. Otherwise it does not and play passes back to the other player (or the turn ends).

3.5c Whether the player is successful or not in a Second Activation attempt, the Formation HQ is Done, meaning it cannot be activated again that turn. *Orient* the counter

in a way which indicates to the player that the Formation is done.

3.5d If the player does not want to attempt a Second Activation he can rotate the Formation's HQ to its Done orientation without attempting one. The player is never required to attempt a Second Activation.

Exception: Formations which start play with their HQ 'Used' must make an attempt.

Regardless, Second Activations **cannot** be held onto for later.

Complete Activation Example

In this example, we will follow the Activation of the 12 VG Division at the start of *Last Blitzkrieg*. It will not be a canned example (events will play out as they actually do) nor is it

'perfect' play. It is here as a straight version of what can happen in an Activation, not a look at everything that could happen in one.



This is the at-start situation. The 99 ID HQ has been moved into an easier to see position. To keep everything correct with the real start, the unit at 43.19 is not in the 6 hex range that allows Prep Def, so it has none. At the far right of the image is the 12 VG Combat Trains which are currently stacked with the 3 FJ Combat Trains and ensuring, as if it wasn't obvious enough, that they each have a case of Crossing the Streams. The 'Mixed Formations' DRM does not apply.

First, the German player identifies that he is Activating the 12 VG and flips the HQ. This is the Formation's initial Activation so no die roll is required to do so. Since the Germans are on the offensive, the German player is not interested in establishing a Prep Def or doing a Fatigue Recovery Activation, and has no MSR Blockage or odd Combat Train distance concerns to deal with, so the player moves onto SNAFU.

As discussed earlier, 12 VG suffers from Crossed Streams (-1), has a Fat-0 (so no DRM one way or the other), is at Optimal Distance (in this case, 10 hexes, +1), the Germans get a +1 Game Specific SNAFU DRM for this turn, but has no other effects in play. SNAFU roll DRM is a net +1. The player rolls a 6, modified to 7 which is just barely a Pass.

A Pass SNAFU allows the division to place two OBJ markers. Here I used KT-X markers. The VOR unit in the 12 VG (KG Holz) is capable of laying a Recon OBJ, but will be unlikely to be able to use that function in this Activation due to other demands on it. Looking ahead to the future (poorly, as events will show), I placed both OBJs in 44.20 which catches all three 99 ID front line units and allows the Double OBJ Zone DRMs to be used.

Holz moves first expending 8 MPs to enter 44.19. Note that the Overpass Bridge in 47.18 is not operational, so the Open Terrain cost (2) was paid to move from 48.18 to 47.18. Holz will burn both Fire Events to Drop Support and be STOPPED in that hex to be an Assist for the later attack.

Holz engages the Support in first C44.20 and then C43.19. They are both effective 6's, Holz is a 6 but gets a +1 DRM for the Double OBJ (some call this a Double Tap) in each shot. The Support Inv'ld row on the *Engagement Table* is used with a +1. A two dice roll of 8 becomes a 9 and 7 becoming an 8 and gives the needed Support Dropped results.

3.6 Passing, and Turn End

3.6a A player **must** Activate (or attempt to Activate) a Formation every time play passes to him. He cannot decline to do so. He cannot “pass.”

3.6b A player is only done for the current game turn once all *his* HQs are oriented as Done. Once a side is done, it cannot Activate again. Play continues with the other side until all HQs are Done. At that point, the turn ends.

Complete Activation Example, continued

This leaves the situation as follows:



In order to save closer units for potential deeper operations, I/89 moves to 45.20. This unit makes a regular attack on 44.20 using Holz as an Assist (which Finishes both units for the Activation). The German player uses 1 Arty Point as Suppression (it is important to evict the US unit from the hex, so the +2 for Suppression on the attack is much more valuable here than inflicting extra losses).

The attack is worth 8 (AR of 4, +2 for Suppression, +1 for Assist, +1 for Double OBJ). The defense is worth 5 (AR of 3, +1 for Terrain, +1 for Prep Def). So, it is a net +3. The German player rolls a 5 for a modified 8 result giving A1, Situational, Traffic. The Attacking unit takes a loss and the defender must take his Situational as a Step Loss staying in the hex because the unit has Prep Def. This wastes the Traffic result as that will not apply unless the defender is destroyed or Retreats.

I/27 and the Pioneer move to 44.18 and attack 43.19. With the main route sealed by the failure in the center, the German player uses three of his Arty Points (he started with 6) to conduct a Destruction Barrage. These rolls need a 4-6 to inflict a step loss. He rolls 6, 2, and 6 for two step losses. I/27 is the Attack unit, the Pioneer is the Assist. The attack is worth 6 (4 AR, +1 for Assist unit, +1 for Double OBJ). The defense is worth 4 (3 AR, +1 for Terrain, out of range for Prep Def). So, +2 overall. A

roll of 8 modified to 10 gives no loss result ([A1] converts to no result because of the lack of Prep Def), Situational, and Traffic. The US player must Retreat as the unit, itself, does not have Prep Def. This leaves behind a Traffic Marker. I/27 advances into the hex.

Further north, I/48 and II/48 move into position to attack 2/394. The German player uses his last two Arty Points to go for kills here. Rolling a 3 and a 6 getting one kill. The Attack unit is II/48 and the Assist is I/48. The Attack is worth 6 (AR 4, +1 Assist, +1 Double OBJ) and the Defense is worth 6 (AR 3, +1 Terrain, +1 Support, +1 Prep Def). Net +0. A roll of 6 gives an A1.

The rest of the division pushes forward, including the HQ which moves across the blown Overpass which requires the MSR to the Combat Trains to pass to the Tracks in the 3 FJ area. While the Trains are at 15 hexes, the path is currently illegal because of the EZOC in 47.17. The player may be hoping that other Formations will shoo the 14 Cav unit away, but this will not help the Second Activation of the 12 VG if there is one. As a result, the 12 VG Trains must be removed from the map at the end of the Activation. The 12 VG's Blob never overlaps that of the 3 FJ, so no Mixed occurs and no Coordination markers are applied.

Complete Activation Example, continued

The situation before Clean Up is as follows:



The German player rolls one die for Fatigue. Because of the Attacks, he will increase Fatigue on rolls of 1-3. He rolls a 1 and increases Fatigue. After Clean up, the result looks like:



The German player rolls one die to see if he can do his Second Activation. Obviously, he really wants to apply more effort at breaking the frontline before the US player can react. A roll of 6 allows this, the HQ is rotated to done, and the Second Activation continues with step b (Preparation). None of the activities there apply, so play moves on to SNAFU.

SNAFU is more complicated than last time. The Trains are off map (therefore, not Legal) so many of the usual DRMs do not apply, but a new MSR Blocked Level 1 marker is added. Rather, they get a -1 for Fatigue, +1 for the German Game Specific DRM, -1 for the Blocked marker, and a -3 for the illegal Trains (-4 overall). A roll of 8 gives a modified roll of 4 which is a Partial.

Most importantly for this Activation, the number of available Arty Points is halved to 3, all units move at 1/2, and only one OBJ is allowed. The single OBJ is placed on C44.20.

I/27 moves to 42.20 and II/27 moves into 45.21. This cuts the Safe Path to 1/394 in C44.20.

KG Holz is again pressed into service to drop Support on the intended target (1/394). 6 vs 6, or +0. Roll of a 6 is just barely enough to Drop Support. Several options present themselves at this point. Holz could be used for an Assist and make an Attack by Fire. It could do a Shock Attack. Shock Attacks are best designed for weak targets, this target is not weak. Holz could also lead the Attack, which would get an additional DRM because it is a Dual unit.

Holz will do the Assist/Attack by Fire role. Here the Attack by Fire works with a roll of 4, killing a Step.

Because of the Partial, the German player only has 3 Arty Points to use and decides to burn them on this attack in an effort to kill the unit outright. Rolls of 3, 4 and 3 kill one Step, leaving the unit with 3 Steps remaining.

I/89 is the Attack unit again, with Holz as the Assist. The Attack is worth 4 (AR of 4, +1 for Assist, -1 for the MSR Blockage) while the defense is worth 5 (AR of 3, Terrain +1, Prep Def +1), so a -1 DRM overall. A roll of a 6 gives an A1 result. The lack of a Retreat result frees 1/394 from the No Safe Path loss.

II/48 and I/48 execute the same attack as in the first Activation, this time with no Artillery support. The attack is 4 vs 6 (same as the first Activation, less the Double OBJ that existed then and with the -1 for the MSR Blockage). -2 DRM. A roll of 8 gives a modified 6 or another A1 result.

The positions at this point are:



Complete Activation Example, continued

The German player must roll for Fatigue this time. Because he did Attacks, the roll to increase Fatigue is still 1-3. A roll of 2 does just that and the division will carry a Fat-2 into its next Activation.

The end result of this rather ineffective pair of Activations (fairly normal for beating on decent troops with Prep Def in Terrain with good attacking infantry lacking in Supporting arms). It was a mistake to move the HQ the way I did (blocking off the Trains).

In the next Activation of this Division, the situation with the Trains had better be cleaned up (which will happen after I'm temporarily hit with a MSR Blocked Level 2 marker) or the suffering for that poor planning will continue to affect them.



4.0 Command

4.1 Formations

4.1a Formations are flexible in size from game to game based on the needs of the situation being simulated. Each Formation has an HQ unit that represents the center of its command system.

4.1b Formations can never exchange or reassign units with a **printed** Formation affiliation to another Formation. See also Independent Units (9.5).

4.2 Command Radius

4.2a Each HQ has a *Command Radius* printed on its HQ. It is the maximum distance from the HQ at which a unit functions normally. Units which are beyond Command Radius apply the penalties and restrictions in 4.2d.

4.2b Given other rules, Command Radius does not affect the ability of units to move (but see 4.2e and 4.2f), Attack, Shock Attack, Engage, Attack by Fire, or spot for Barrages. Units outside their HQ's Command Radius still have access to their Formation's Support provided that unit has not had it Dropped.

4.2c Command Radius is measured in **hexes** (*not* MPs) from the HQ to the unit's hex. Ignore everything: terrain, EZOCs, Engagement Zones and even Enemy units.

4.2d Out of Command Radius Effects.

Use the Formation HQ's current position to determine if a unit is Out of Command Radius at the moment any of these effects would apply.

Units which are Out of Command Radius function normally in every way except where **explicitly** mentioned below.

Out of Command Radius units are subject to Isolation Effects (10.5).

Units which are Out of Command Radius cannot:

- ... accept Replacement Points.
- ... *remove* a Dropped Support marker.

Note: A unit that is Out of Command Radius which is not marked Dropped Support retains the Support its Formation might have. The difference is that such units cannot recover from a Support Dropped result until they return to Command Radius.

4.2e Independent Units. Unassigned Independent units do not have any Command Radius to be within and are never affected by the penalties in 4.2d and 10.1e.

4.2f Staying in Command Radius.

- Units (except Combat Trains) **must end the Activation in Command Radius OR must stay in the hex in which they began. If doing so is not possible, a unit must move in a way that will get that unit into Command Radius without foot dragging. In either case, it is allowed to simply leave a unit in the hex in which it began**

the Activation. Isolation Effects (10.5) apply normally to any unit that cannot or does not make it back within Command Radius (with the exemption for Reinforcements). This requirement does not apply to the Combat Trains or the HQ itself.

4.3 Objectives (OBJs)

OBJ markers represent the Formation's planning capabilities. There are two types of OBJ marker (Combat OBJs and optional March OBJs). Combat OBJ markers create *OBJ Zones* allowing combat operations. March OBJ markers only designate a HQ's planned location after its move.

4.3a OBJ Marker Availability. The *SNAFU Result Effects Chart* (10.1d) gives the number of OBJ markers the Formation can create.

OBJ markers cannot be saved for future Activations or given to other Formations—they only exist for the current Activation and are removed in that Activation's *Clean Up Phase*. Nor do they extend into the Formation's Second Activation, if any.

4.3b Placement. Combat OBJ markers can be placed in any hex containing an enemy unit.

If a Formation has Prepared Defense, Combat OBJ markers can be placed no further than 6 hexes from the Formation HQ. If a Formation has no Prepared Defense, there is no distance restriction from the HQ.

Otherwise, the player can place all, some, or none of his available OBJ markers anywhere he likes.

The player can place TWO OBJ markers in the same hex to obtain DRMs on the *Engagement* and *Combat Tables*. Two co-located OBJ markers create a “Double OBJ Zone” and any Engagement target or defending hex in such a Zone applies the table DRMs.

Once placed, an OBJ marker cannot be moved or removed until the *Clean Up Phase*. At that point, remove all OBJ markers from the map.

OBJ markers have an arrow in the corner of their counter. This can be used to off-set the marker from the hex it indicates to relieve congestion.

Design Note: Obviously, having to place Combat OBJ markers literally on top of enemy units is an abstraction. Anyone who has ever looked at a real OBJ knows they are best selected by geography. This was allowed in earlier versions of the system, but players were doing all manner of obscene things with OBJ markers in an attempt to maximize their usefulness in hitting multiple targets or catching units that retreat. OBJs started showing up in back of enemy units and even on top of friendly ones. The time expended here was criminal. The simplification above reduces the crazed planner effect.

4.3c OBJ Zones. Each Combat OBJ marker creates a 2-hex radius *OBJ Zone*.

Important: Regular & Shock Attacks, Attacks by Fire and Barrages can be executed **only** in *OBJ Zone* hexes. Engagements, however, **do not** require *OBJ Zones* but can take advantage of the DRM for *Double OBJ Zone* hexes.

4.3d Recon. A Recon unit (any unit with a ‘Cavalry Slash’ in its unit symbol **and** any other unit types listed as Recon in the Game Rules) may place ONE Combat OBJ marker per Fire Event used, if successful.

Only a Recon unit from the currently active Formation may use the process below and then only if the *SNAFU Results Chart* allows it.

A unit doing a Recon cannot be overstacked at the moment the OBJ marker is placed. Any required Stopping Engagement

Objective Zones



Here using the shaded OBJ Zone...

- Unit A can be Attacked, Engaged, Attacked by Fire, or Barraged.
- Unit B can only be Engaged.

must be carried out successfully (6.0i) *before* the attempt to place the *OBJ* marker.

A Recon **cannot** be executed if a unit is **Stopped** for any reason.

Conducting a Recon costs a unit ONE Fire Event.

Procedure: Roll one die. If the roll is less than or equal to the Recon unit’s Action Rating, place an OBJ marker on any enemy unit **w/i 2 hexes** of the Recon unit.

Once created, the new Combat OBJ marker and its *OBJ Zone* can be used normally by the Recon unit and any other unit(s) of the active Formation.

If the roll fails, place no OBJ marker, and the unit continues its movement normally (if any). If a Fire Event remains, the unit can stay in position and attempt to recon the same hex again or conduct a different recon elsewhere.

Recon OBJs **cannot** be placed in a hex already containing an OBJ marker (to obtain the benefits of a Double OBJ).

Placement of Recon OBJs by Formations with Prepared Defense is also restricted to 6 hexes or less away from the HQ.

4.3e March OBJs (Optional). A *March OBJ* can be used to show the intended location of the end of the Formation HQ’s move. This is done when other OBJs are placed in order to lock down the HQ’s intended ending hex so the ‘plan’ doesn’t change once the Activation begins. If no March OBJ is placed, the HQ cannot move in its Activation.

A March OBJ **does not** create a **OBJ Zone** and **does not** count against the total OBJ markers available from the SNAFU Result. Recon units **cannot** create March OBJs.

Recon OBJs



In the midst of this Activation, the German player has attacked hex A (which also contains an OBJ set earlier). The unit defending there has retreated to hex B which is just outside the existing, shaded, OBJ Zone.

The German Player has dispatched KG Stephan, which is Recon Capable, to set a Recon OBJ on hex B to allow a follow-on attack to clear the bridge. The player could opt to do the Recon either from the C or D hexes. The D hex is under the Support AV EZOCs of the unit in B, so to Recon From there will require dropping Support first, to eliminate the STOP. Hex E cannot be used because of the STOP Terrain.

KG Stephan uses one Fire Event for the attempt from C.

Roll one die and compare to KG Stephan’s Action Rating (5).

If the roll is 5 or less the Recon is successful and the marker is placed on B.

If the player rolls a 6, no OBJ is placed, but KG Stephan can try again if it still has its other Fire Event.

A March OBJ can be placed in any road hex (which **need not** contain an enemy unit) which connects to the HQ.

The HQ **must** move directly toward this hex as best it can manage.

Ignore March OBJs for Fatigue purposes.

4.3f Route Planning (Optional). An additional layer of realism can be applied to March OBJs (making them mark ‘Axes of Advance’) by applying these rules to the route from the HQ to the March OBJ. This rule cannot be used unless 4.3e is as well.

The March OBJ must be linked to the HQ via a road pathway the player selects on placement. The road path must be continuous as printed on the map, but it is OK to use a connection that does not exist at the moment (such as a bridge that is not built yet or one that has been blown).

The road need not be marked, as it should be simple enough to remember. Enemy units, their EZOCs, and other friendly Formations have no effect on this pathway—it is merely a line on the commander’s situation map.

The selected route must be simple and direct. Be reasonable here. If several nearby routes could be used, note the one you are using to yourself and be sure to apply it stringently.

A unit of a Formation with a posted March OBJ **can only move if the hex it will enter is w/i 2 hexes** of any hex of the designated route from the March OBJ through the HQ and then to the Combat Trains (if on the map and Legal), inclusive. If the Combat Trains are either off map or illegal, then the route ends at the HQ.

Once a unit moves into the March OBJ’s hex, it is free from the above restriction (it acts as a Release Point).

Exceptions: This requirement does not affect Advance after Combat or newly arrived reinforcements of a Formation which are attempting to catch up.

Design Note: *This is a concept I tried mightily to find a simple solution for in the design process. Easy enough on the face, I could not find an adequate wording that didn't instantly find players violating the intended spirit by weaving the path in order to not be hindered by its restrictions. Others very much appreciated the added depth it gave the simulation. I present its final testing form here for your enjoyment... but if you think you might 'play' the path to 'pick up units', just do me a favor and don't use it. If you have an understanding of what an Axis of Advance would look like in real life and want that added dimension in your play—enjoy the swim!*

A nice by-product of this rule is the need to assemble a dispersed formation for such a movement. This takes time. As such, you

can't instantly change posture from widely dispersed to a deep movement (or vice versa). Those are good things.

Obviously, the restrictions here give you even more reason to avoid micro-moves with your HQs!

4.4 Coordination

Coordination between friendly Formations occurs whenever one Formation enters (or crosses) another Formation’s area of operations.

4.4a Coordination occurs in two ways:

- If at any time in an Activation, Mixing (10.1e) occurs, apply a Coordination marker to each Formation involved.
- Any time an HQ Retreats, mark that Formation with a Coordination marker. Otherwise, Coordination is never caused by a Retreat.

Never place a Coordination marker as the result of any Advance after Combat or non-HQ unit Retreat.

4.4b Additional Coordination markers have no additional effect on a Formation (once marked, it is marked, so only apply one marker), but a single Formation can inflict Coordination on multiple other Formations depending on 4.4a.

4.4c Formations marked with a Coordination marker must “pay” for it by applying the Coordination DRM on the SNAFU Table. Remove the Coordination marker after doing so, regardless of the roll’s result.

Coordination markers can also be removed ‘for free’ during a Recovery Activation (10.4c).

4.5 Prepared Defense

Prepared Defense shows the improved defensive status of a Formation which occupies a position for an extended time. Prepared Defense provides additional protection on the *Combat* and *Barrage Tables*.

A Formation creates or removes Prepared Defense in the *Preparation Phase*.

Mark Prepared Defense with a marker at the HQ.

A Formation with a Prepared Defense marker:

- a) Suffers a limitation on its SNAFU result (it can be no better than Partial, even if a better result is rolled).
- b) Cannot move its HQ (if the HQ retreats, the Prepared Defense is removed.).
- c) Suffers a DRM on the Combat Table when attacking.

Only units of a Formation marked as in Prepared Defense **which are w/i 6 hexes** of their HQ **AND** are *currently* showing a **Deployed-side** have Prepared Defense.

They:

- a) Use the Defender *Combat Table* DRM.
- b) Are said to “have” Prepared Defense in cases where such a designation is needed.

4.5a Only Formations with at least one Artillery Point **AND not marked** with a MSR Blocked Level can have a Prepared Defense marker.

At the *moment* any Formation with a Prepared Defense is given a MSR Blocked Level marker or no longer has one Arty Point, remove its Prepared Defense marker.

Prepared Defense is unaffected by SNAFU results.

Design Note: *To a large extent, Prepared Defenses represent the preparation of artillery PPFs (Final Protective Fires) and Artillery/Mortar firing points and not—as one might think—digging holes in the ground.*

4.5b To create or remove a Prepared Defense marker, do so in that Formation’s *Preparation Phase*.

The marker is automatically removed when the HQ Retreats.

The restrictions and advantages of Prepared Defense appear/disappear instantly with the marker.

4.5c **SNAFU.** Prepared Defense restricts the SNAFU results a Formation can use. If the SNAFU result is Pass or Partial, the Formation must use Partial. If the result is Fail, it remains Fail.

4.5d **OBJ Placement.** Formations with a Prepared Defense marker cannot establish any Combat OBJ marker (from SNAFU or Recon) *further* than 6 hexes away from its HQ.

4.6 Formation Activation Markers

Each Formation has a Formation Activation marker. Use these to keep track of which Formations can still Activate. When a Formation is finished for the turn, remove the marker from those available (it will return for the next turn). The scenario will list the markers available at start. Those belonging to reinforcing Formations should be added as they enter play.

Optional: It is acceptable to place the available markers in a cup and randomly draw them to determine the next Activating Formation.

5.0 Movement

5.1 Movement Basics

A player can move as many or as few of a Formation's units as he likes during its Activation. Each unit can move as many or as few hexes as desired, subject to MA, SNAFU results, stacking, Traffic, enemy units, EZOCs, and terrain.

How to move units

Move units individually or in stacks. Movement must follow a contiguous path of hexes through the hex grid. Units can move in any direction or series of directions.

5.1a Movement Points (MPs). Each unit expends MPs for each hex entered and hexside feature crossed according to the *Terrain Effects Chart*. Keep a running MPs expended total as each unit/stack moves.

5.1b Movement Allowance (MA). A unit's MA is the maximum number of MPs it can use in a single Activation.

5.1c If eligible to move in an Activation, a unit without enough MPs can still move a **minimum** of one hex.

Units can **never** use this rule to conduct a Shock Attack, move across or into Prohibited terrain, violate the effects of Failed SNAFU, or to move from EZOC to EZOC when not allowed.

Only units with a current MA greater than zero can use this rule.

5.1d A unit can only move from hex A to hex B if it could **also** move from hex B to hex A.

For example, a unit prohibited from entering a Slope hex could not move from a Slope hex to an adjacent Open hex through a non-road hexside.

5.1e Units in a stack have independent MAs and the MP expenditures of one unit do not affect the other. A player cannot transfer MPs, even if unused, from unit to unit or save them for later use.

5.1f Halved Movement Allowance. An MA might be halved (x1/2) for a number of reasons (SNAFU results, Weather, etc.). **Regardless** of the *number of reasons* a unit might have for a x1/2 multiplier, **ONLY** halve the MA once.

Keep fractions; **never** round a reduced Movement Allowance.

5.1g Traffic. Traffic shows the effects of areas which are clogged with post-combat confusion.

Traffic Stopped markers are applied in some *Combat* and *Engagement Table* results.

Traffic Stopped markers inflict a **STOP** on all units in or entering that hex.

A *Combat Table* Traffic Stopped marker is only placed as the result of a *Combat* if the defending unit is destroyed or retreats (otherwise ignore the Traffic result). Place the marker in the defender's hex.

When the Attack unit enters the hex in an Advance after *Combat*, it executes the **STOP** there.

Engagement Table Traffic results, however, place a Traffic Stopped marker in the Firer's hex.

If a Traffic Stopped marker is in the hex: *There is no additional MA cost for a unit to enter the hex*, but it must **STOP** when it does so.

If a Traffic Stopped marker exists in a hex that already has two units in it, another unit cannot enter the hex.

All Traffic Stopped markers are removed from the map in the *Clean Up Phase* of the Activation in which they were placed.

5.1h Unit Traffic (Optional). *Unit Traffic* exists in a hex containing...
... a **Finished Move-side** unit of the Active Formation (to include the HQ)
... **any** unit of an *Inactive* Formation (regardless of side showing).

There is no marker for *Unit Traffic*, it is assumed in the above situations.

Units **entering** a *Unit Traffic* hex *do not* benefit from the roads in that hex OR on the hexside crossed to enter it.

In this case, the unit must pay the MP cost of the *other* terrain in (and the hexside crossed).

If the other terrain in the hex and/or hexside is *prohibited* to the unit's Movement Class, the unit *cannot enter* the hex.

Apply these Terrain Effects only as a unit *enters* a *Unit Traffic* hex, but **never** as it *exits* it.

Ignore **all** *Combat Trains* and *Unassigned Independent* units for this rule.

Design Note: *Unit Traffic (5.1b) was, for a long time, a part of 5.1g and the standard way to play. It was always a time consuming matter that (in the end) provided only limited returns. Some players loved it, others hated it. I'd suggest playing without 5.1b at first and adding it later if the greater detail appeals. It does work very well, but it is also a lot of work to do since players will have to carefully orchestrate their moves.*

5.2 Terrain Effects on Movement

According to the *Terrain Effects Chart*, each hex and hexside feature costs a specific number of Movement Points. The moving unit must pay the total required cost *before* entry (**Exception:** 5.1c). A hex or hexside's Movement Point cost varies depending on the unit's Mobility Class: Tactical, Leg, or Truck (5.3) as listed on the *Terrain Effects Chart*.

5.2a Roads can only be used if the moving unit follows a continuous road path. The unit pays the *road movement cost* and ignores other features in the hexes and hexsides crossed (**Exception:** 5.1h *Optional Unit Traffic*). There is no requirement for roads to intersect **within** a hex in order to leave via any of them—roads are considered to be linked in a common hex even if this is not literally shown.

5.2b Add the cost of any hexside feature crossed to that of the hex entered. (*Exception:* Units moving along roads ignore all hexside features.)

5.2c Units cannot enter or cross Prohibited hexes or hexsides (unless using a bridge or road).

5.2d Multiple Terrain Types. Some hexes have more than one area terrain symbol. Use the type most costly for movement, with the exception of units following roads. The *quantity* of the symbol in the hex does not matter.

5.2e STOP Terrain. Units must STOP movement for the current Activation upon entering a hex containing STOP Terrain, regardless of the MA remaining. The hex itself costs 4 MPs.

5.3 Movement Classes

A counter's Movement Allowance (MA) Color is used to show its Movement Point (MP) class.

- **Tactical (Tac)** units have a Red MA.
- **Leg** units have a White MA.
- **Truck** units have a Black MA.

Design Note: *These are the same as their OCS predecessors, except 'Tactical' replaced 'Tracked' as Armored Cars are included.*

5.4 Restrictions on Movement

5.4a Only the currently active player can move units.

5.4b Units in Support do not affect the stacking or movement of the Formation's regular units.

5.4c Off-map Movement is generally prohibited. See 1.1d and 7.5h.

5.4d HQs must end their movement (or Retreat) in a non-RR road hex.

5.4e Units that start outside of Command Radius must move as best they can to return to Command Radius *if they move at all*. See also 4.2d and 4.2f.

5.4f Units can never enter hexes

containing any kind of enemy unit, except to 'jump' HQs or Combat Trains as per 9.1f and 10.3d.

5.5 Stacking

Stacking is when more than one unit is in a hex.

5.5a No more than 2 Combat Units can occupy a single hex at the end of an Activation.

5.5b HQs, Support, Combat Trains, and all game markers *do not count* for stacking.

5.5c Two units from different Formations can stack together, but the player must take care that when a given Formation Activates, only **its** units function.

5.5d Stacking is enforced at the end of the owning Formation's Activations. Momentary overstacking *during* a stack's move is allowed.

Exceptions: Overstacking is **not allowed:**

- a) At the moment of Fire Event usage (7.0d)
- b) During an Attack or Assist of an Attack (7.2e)
- c) When doing a Recon (4.3d), or
- d) Upon placement as Reinforcements (9.3).
- e) When entering a hex with a Traffic Stopped marker.

If a stack is found in violation of stacking at the end of an Activation, the owning player retreats his choice of the excess units to the next hex back which allows legal stacking (repeat this process as needed).

5.5e Stacking Order. A stack's top Combat Unit must be the one with the longest printed Range (use greatest AV rating in ties). Otherwise, the moving player can freely determine stacking order at any point during his Activation.

5.5f Both sides can re-order their stacks freely for an Attack, but they must return to normal order immediately after its resolution.

5.5g The unit providing the Action Rating for each side in an Attack must be the stack's top unit when executing the Attack. It is the unit being used for an assortment of DRMs.

5.5h The player cannot "withhold" a unit from a stack's defense. All units in a defending hex must participate.

5.6 Alternate Counter Sides

Many units have sides showing variations on the unit's values (see also 1.2b). Whatever 'unit' is facing up determines the values and attributes associated with that unit at that moment.

Design Note: *Many will note the similarity between the 'sides' concept here and the 'Modes' as shown in the Operational Combat Series. What I've done here is a bit looser than the OCS Mode structure and I wanted what the side shows to be different depending on the unit type involved, some of which aren't really a 'mode' in any event. So, dealing with the 'side showing' gets the job done without any fuss.*

5.6a Units can flip only **before** beginning any Activities (3.2a step e). The unit then functions normally based on the side presented. No unit can flip more than once in an Activation.

Flipping does not cost MPs and can be done regardless of circumstances with the exception of 5.6c.

5.6b A unit only has the attributes of the side showing at that moment; the values on the face-down side have *no effect* on the unit's capabilities.

Exception: When it comes to Replacement Points, having an AV rating on *either side* determines the type of Repl required.

5.6c A unit on a Leg MA side **cannot** switch to a Tac or Truck MA side . . .

. . . in terrain a Tac/Truck MA unit could not enter,

. . . when out of Command Radius, or . . . without a Safe Path (1.6).

5.7 Realistic Movement (Optional)

Players frequently ponder, control, redo, and rework moves in games to squeeze ever greater levels of optimization out of their play. Their opponents must do the same.

The result is a level of precision that has nothing to do with reality and comes at a great time expense. This rule is designed to make the cardboard units start to move like the real thing.

Mistakes happen, a lot.

5.7a Unit Movement. Units move as the real elements they are. In other words, if the counter moves along the grid into a hex, it really did do that. No redos, if you go down the wrong track and need to back-pedal, do so literally using your MA.

5.7b Honest Mistakes. Units get lost, can't make it on schedule, and so on all the time. The above rule is designed to make that happen in the game.

However, if you literally screw up (normally a matter of counting MPs wrong, forgetting a rule, or what not), let your opponent know what you did and figure out where the unit should be if the mistake was not made.

Figuring out you could have made another shot with a unit or some such and you just now realized it, doesn't count.

6.0 Zones of Control (ZOCs)

6.0a Combat Units generally have ZOCs in all adjacent hexes and **terrain does not limit ZOCs in any way.**

Some ZOCs may **also be AV ZOCs.** (see 6.0h)

ZOCs generated by enemy units are EZOCs.

6.0b HQs, Combat Trains, and Unprepared units (1.2d) never have ZOCs.

6.0c Friendly units do not negate EZOCs, Exception: Safe Path (1.6).

6.0d Units can only be designated as an Attack or Assist if the defending hex is in their ZOC.

6.0e EZOCs can inflict step losses on Retreating units (7.5).

6.0f HQs can never enter an EZOC hex. They can stay in one, if already there, but they can never move themselves into an EZOC hex.

6.0g Leg MA and Truck MA units must STOP if they enter an EZOC and cannot move from one EZOC hex directly into another EZOC hex.

Tac MA units can move freely from EZOC to EZOC. (**Exception:** see 6.0h)

Any unit can freely exit an EZOC provided they are not moving directly into another EZOC, given other rules.

6.0h AV ZOCs. AV and Supported Non-AV units also have AV ZOCs in all *adjacent* hexes. AV ZOCs do not extend out further than this, regardless of the unit's range.

Available Support generates **Support AV ZOCs** for all eligible Formation units. AV units generate **Real AV ZOCs.**

Tac MA units must **STOP** upon entering either type of AV EZOC and possibly be required to conduct a Stopping Engagement (6.0i). However, Support AV EZOCs are ignored for Retreat and Safe Path determination.

6.0i Stopping Engagements. Any stack containing one or more AV units **must STOP** and then conduct at least one Engagement upon entering a **Real AV EZOC** hex. **Light AV, since they cannot initiate an Engagement, must STOP upon entering such an EZOC unless other units clear it for them.**

There is no requirement to conduct a Stopping Engagement if the hex contains only *Support AV EZOCs* or upon any Advance after Combat. However, the STOP still applies for either Support or Real AV EZOCs.

The **STOP** requirement for the AV EZOC is waived if all the units providing the AV EZOCs in the hex are eliminated by a) destroying the providing unit, b) causing the providing unit to Retreat, or c) Dropping Support, as applicable.

If, however, the moving stack fails to do this in a Real AV EZOC, the STOP converts into a Finished.

The moving player chooses the AV unit in his stack to use for this purpose if there is more than one.

The inactive player selects the unit of his choice providing an AV EZOC as the target for each Engagement, choosing those giving Real AV EZOCs **before** Support AV EZOCs.

Needed Stopping Engagements must be done and the hex's STOP waived per the above **before** making any Recon attempt.

Stopping Engagements never occur in Advance After Combat or Retreat.

Stopping Engagements



Here the II/16 (116 Pz) has just moved into the hex adjacent to TF Harper.

A Stopping Engagement is required as Harper has a Real AV ZOC.

There are no additional DRMs in this case so it is the German unit's effective 7 vs the US unit's effective 6 for a +1 over all.

The first roll is a 4 with the +1 gives a 5 and a Firer Loss & Traffic. The German player takes that loss and places a Traffic Stopped marker in the Panzer Bn's hex and could try again. The unit is STOPPED, but that doesn't preclude using the remaining Fire Event. The Pz Bn has no Assault Arrow, so it could not literally 'Attack' Harper using the *Combat Table*. Shock Attack is not possible because of both the STOP and the fact that Harper has an AV.

He fires again, same +1, and this time rolls an 8 for a net 9. Harper takes one loss and has a Retreat result to satisfy.

6.1 Engagement Zones

6.1a AV units which are *not in Support* and any eligible unit of a Formation with a Stand Off unit in Support generate an Engagement Zone. If a unit can have an Engagement Zone, then it creates one in all hexes in the AV unit's Range, given Terrain and Weather.

6.1b Terrain has no effect on an Engagement Zone into adjacent hexes, but greater ranges require a hex path which does not include any hexes of Blocking Terrain along the **straight line** between the two ending hexes. Ignore terrain in both end-point hexes entirely.

Use the listing on the *Terrain Effects Chart* to determine if an intervening hex is Blocking or not. This means the whole hex Blocks. The specific location of any symbol in the hex is irrelevant.

Hexside features, units of both sides, and all game markers are ignored.

If the shortest pathway between the firer's hex and the target hex runs on a hexside between a hex that Blocks and one that does not, the Engagement Zone is **not** Blocked.

6.1c Engagement Zone Movement Effects.

- 1) Truck MA units must **STOP** when they enter an Engagement Zone hex.
- 2) HQs *cannot enter* any Engagement Zone hex in normal movement, but are only restricted in a Retreat by the ending hex.
- 3) Engagement Zones have no effect on the movement of Tac or Leg MA units.

6.1d MSRs cannot enter enemy Engagement Zone hexes (10.3a).

7.0 Combat

Combat occurs in a number of ways, including Engagements (7.1), Attacks (7.2), and Shock Attacks (7.3).

Important: Most Combats types require the target hex to be in an OBJ Zone (4.3c). Engagements **do not** require *OBJ Zones*, but can take advantage of the DRM for *Double OBJ Zone* hexes.

Engagements are conducted using units with Armor Values (AVs). These are exchanges of fire between various weapons platforms.

Most units can physically *Attack* (or Assist some other stack's attack against) hexes adjacent to themselves. These are set-piece assaults to push the enemy out of a desired position.

Shock Attacks can be conducted by certain Tac MA units. These represent mechanized units taking advantage of their armor and mobility to storm weaker enemy positions.

In addition to Combat, the player can Barrage (8.0) enemy units using his Artillery, AV, and Air Assets. Obviously, these represent the application of firepower to an area to cause disruption and casualties.

HQs and Combat Trains *cannot* be Engaged, Attacked, or Barraged. They can only be affected by the actions described in 9.1f and 10.3d.

7.0a The *Terrain Effects Chart* divides terrain features into those that affect Combat and Barrage (simply termed 'Terrain') and those that do not.

Apply both the hex and hexside (if any) feature effects on Attacks. There are **no hexside feature** effects on Engagements, Attacks by Fire, or Barrages.

7.0b **Supply.** SNAFU results determine if and how Formations can initiate Combat or Barrage.

7.0c **Step Losses.** Combats and Barrages apply losses to units as Step Losses. A unit's available steps (at full strength) are printed on the counter. Use a Step Loss marker under the unit with the number of steps **remaining** facing the same way as the unit. Rotate and/or flip the marker as needed to show the current steps.

When a unit's steps available becomes zero, it is destroyed. Remove it from play immediately.

HQs and Combat Trains can never be used to satisfy step loss requirements.

7.0d **Fire Events.** Each execution of the following uses one Fire Event:

- Engagement
- Attack by Fire
- Shock Attack
- Conduct a Recon

A Fire Event is expended once its use is announced, regardless of the results obtained.

Important: A given Active unit can only initiate **TWO** Fire Events in an Activation. Once these are executed, the unit **STOPS**.

Any use of a unit in a regular Attack or as the Assist in one doesn't expend Fire Events, but the unit is *Finished* for the Activation and wastes any remaining Fire Events it might have still had available.

A unit cannot be overstacked when using a Fire Event.

Once a unit activates, it must either 'use or lose' both of its Fire Events before another unit activates.

7.1 Engagements

Engagements use the *Engagement Table* to represent AV units firing upon each other. Unlike Attacks, they do not represent an effort to seize terrain.

7.1a Engagements are fires upon enemy units to generate losses, suppress Support, and sometimes to allow the friendly unit to continue to move or attack (6.0i).

The Inactive player **never** executes Engagements.

An **Active stack** containing AV units (including Dual and Limited AV) can execute an Engagement by firing on a single Inactive stack. **Exception: Light AV units cannot initiate an Engagement as the Firer; they can only be the Target of one.**

Support can be the targets of Engagements, but (except for *Stand Off AV* units in Support) **cannot initiate** them.

Important: Engagements (alone) **do not** require the target hex to be in an OBJ Zone.

7.1b The player **cannot** initiate an Engagement against a hex that has no AV unit or Support in it. See Attack by Fire (8.3) instead.

7.1c Beginning a phase in an EZOC does not affect the ability of a stack to initiate Engagements.

7.1d Each Engagement counts as the expenditure of one Fire Event (7.0d).

A given target hex can have any number of Engagements directed at it in a single Activation.

7.1e If a target hex has more than one AV unit (because of multiple units in the hex or multiple available Supports), the *targeted* player decides which to use.

7.1f If the Active player has a non-Support AV unit (or *Stand Off Support*) with an enemy hex in its Engagement Zone, the player freely decides if he wishes to make an Engagement.

7.1g The Active player can initiate an Engagement at any point in his stack's movement, need not move to do so, and is free to move afterwards, but STOPS after the second Fire Event occurs.

7.1h Engagements do not cost any MPs to execute—they affect movement only by the expenditure of Fire Events.

7.1i Conduct an Engagement by rolling two dice on the *Engagement Table* adding any applicable modifiers.

The result will be:

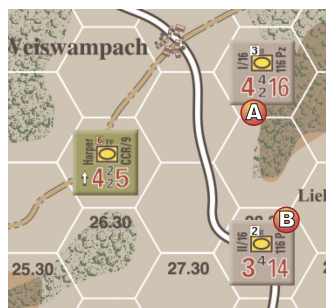
- Target Loss
- Firer Loss & Traffic
- Both Loss
- Target Loss & Retreat
- Target Drop*
- No result.

* Applies as 'No Effect' if Target is not Support.

Apply the result to the side or sides indicated. Traffic Results (5.1g) apply Traffic Stopped markers to the Firer's hex.

Ignore any Firer Loss AND Traffic results if the Firer is outside the Target's Range.

Engagement



For purposes of this example, Visibility is greater than 2 hexes.

TF Harper has moved into the hex shown and has not expended any Fire Events so far.

Visibility allows it to 'see' both German units, but as Unit A is in Terrain, it cannot be Engaged from a range greater than 1 hex.

TF Harper chooses to Engage German unit B. None of the DRMs apply, so this is a -1 shot (Harper is an effective 6 (AV + AR) and the German is an effective 7).

This is resolved on the top row on the *Engagement Table* as no Support is involved.

Choosing to fire at range 2 is a smart move on the part of the US player as there is no risk of Firer loss as Harper is out of range of the German tanks.

Harper's first shot rolls a 6, modified to be a 5 which would have been a Firer Loss & Traffic, but in this case both are ignored and it is a No Result because of the range.

The next roll of an 8, modified to a 7 converts a Both Result to a step loss for the Germans, but no effect on Harper because of the range. Both Loss has no Retreat result attached.

However, having expended its two Fire Events, TF Harper is STOPPED for the Activation, which in this case is the same as being FINISHED.

7.1j Engagements are usually possible at or within the unit's range, but may be restricted by terrain (6.1b) and weather. If, however, the Target is in a hex containing Terrain that affects Combat/Barrage, the maximum range to shoot at it is 1 hex.

7.1k If Support is the firer, target, or both, resolve the shot on the 'Support Involved' row. If a Target Loss result occurs, a Target Drop (7.1L) applies *as well*.

Note that the 'Multiple Support' DRM only applies in this case and only if the Targeted Formation has more than one unit in Support (regardless of type) and each Support unit has enough range to be involved in the Engagement.

In **any** Engagement where Support is involved, use the *Supported* unit's Action Rating to determine its Base Differential modifier.

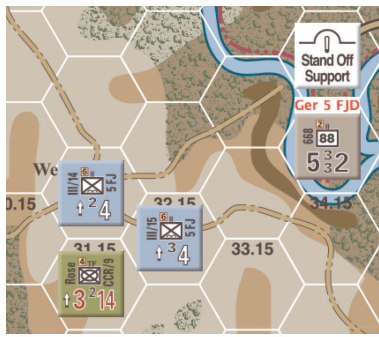
7.1L If an Engagement results in a Target Drop, the target hex Drops all of its Support. A Target Drop result Drops Support from each unit in the stack, even if their own Support was not involved in the Engagement. (See also 9.2i & 9.2j)

7.1m Stand Off Support. These units act as normal Support, but can also fire one Engagement (or Attack by Fire) for each of their steps. Use the "Support Involved" row for such Engagements.

Any Formation unit with access to Support can be the "host" for one (or more) of these shots—the Stand Off Support fires come from that unit's hex.

Stand Off units are the only units that provide Engagement Zones while in Support and do so from all the units of their Formation eligible for Support out to the Stand Off unit's maximum Range, given Terrain and Weather.

Stand Off Support



Here the 88mm unit is with the HQ in Command Radius of the two FJ units, both of which have their Support.

The 88mm unit can make two Engagements as a Stand Off Support (one per step). These could be made one per FJ unit or both from the same one. Note that the player will need to make them one at a time, regardless of how the player envisions it playing out.

The German player decides to use III/15 as the host unit for the first shot (a good choice as it has a better AR). The German shot is an effective 8 (5 AV plus 3 AR) and TF Rose is an effective 5 for a net +3.

The shot is resolved on the "Support Inv'd" row on the *Engagement Table*.

The German player rolls a 7 for a modified 10 and a Target Drop. Because TF Rose is a Real AV unit, the result is No Effect.

The second shot, also using the same host for the +3, rolls an 8 for a modified 11. This kills a step on Rose. Because this is a Stand Off Support shot, Rose must also Retreat.

7.2 Attacks

Attacks use the *Combat Table* to represent assaults into adjacent enemy held hexes.

There are two kinds of Attacks: *Regular* and *Shock*.

Regular Attacks are fully planned, set piece actions with coordination between assaulting units and various supporting units and fires.

Shock Attacks are the efforts, usually in isolation, of mechanized units to exploit their protection and mobility to run a quick, off-the-cuff, assault on an enemy location.

They are generally only useful against weak/poorly defended enemy hexes.

Regular Attacks use the full rules here in 7.2; Shock Attacks use many of them, but also apply a number of exceptions and special requirements in 7.3.

Both types of Attacks are carried out using the following sequence:

Attack Sequence

- 1) Attacker declares the Attack and identifies the defending hex.
- 2) Defender announces if he has Prepared Defense and identifies his AR unit.
- 3) Attacker identifies the Attacking and any Assisting units.
- 4) Attacker executes any Barrage.
- 5) Determine the Net *Combat Table* DRM
- 6) Roll on the *Combat Table*
- 7) Apply results (Losses, Retreats, Advances). Advance after Combat (7.3g) is mandatory if possible.

Regular Attack Requirements:

- Only Combat Units with an Assault Arrow showing on their counter can be identified as the **Attack unit**.
- A hex can **only** be Attacked with a Regular Attack if it is in an *OBJ Zone* (4.3c) and contains an enemy Combat Unit. If Artillery or Air is to be used in the Attack, the hex must also be in the Command Radius of the HQ (8.1a).

7.2a Attacks are made using the *Combat Table*. Do not confuse them with Engagements.

7.2b Attacks can only be made by unfinished *Active* stacks **adjacent** to the enemy.

7.2c The player can execute Attacks at any time during his Activation.

7.2d A given hex can only be Attacked with a Regular Attack **once** in an Activation. No more than one defending hex is ever involved in a single Attack. If the enemy units retreat to a new hex, they could be Attacked again, by different units.

This limitation on a single Regular Attack in an Activation does not restrict

Shock Attacks, which can be done multiple times including before or after a given hex has suffered a Regular Attack.

7.2e Units cannot Attack (or Assist) when overstacked.

The terrain **must** allow the Attack unit to move into the defender's hex should the defender retreat or be destroyed.

7.2f No unit is ever *required* to Attack.

7.2g Once the Active player declares the Attack—but before he identifies his Attack or Assist units—the defending player announces if he has a Prepared Defense and identifies the *Defending AR unit* (5.5f & 5.5g). This unit will provide the Defender's Action Rating.

7.2h Once an Attack has been declared and the Defense determined, identify the *Attack unit*. This unit will provide the Attacker's Action Rating.

7.2i Assists. The Active player can identify one additional unit in (or adjacent to) the Attack unit's hex as the *Assist*. An Assist gives the player a DRM for the Attack, but is **Finished** after doing so (7.2p).

Assists must be adjacent to the defender's hex.

Shock Attacks can **never** make use of an Assist.

See the *Unit Capabilities Chart* to determine if a given unit can be an Assist.

Only **one unit** can Assist a given Attack. No unit is ever required to Assist.

An Assist need not be capable of entering the defender's hex.

7.2j The attacker can select one of two kinds of Barrage using available Arty/Air Points to support his Attack Sequence. A Suppression Mission Barrage (8.0f) generates a +2 DRM, but creates no Barrage step losses. A Destruction Mission Barrage (8.0) can cause step losses from the Barrage Table, but gives NO DRM for the Attack.

If a Destruction Mission Barrage destroys the defending stack, follow the Advance after Combat rule and the attack ends **without** rolling on the *Combat Table* (all involved units are *Finished* as if they

actually conducted the attack). For Fatigue purposes, the Attack **did** occur.

7.2k Each side determines its *Net Action Rating* by applying the applicable *Combat Table* DRMs to the chosen unit's AR. Use the AR unit if unit-specific information is needed to determine applicability.

Subtract the defender's Net Action Rating from the attacker's Net Action Rating to find the final DRM.

Roll two dice, add the final DRM, and read the result off the *Combat Table*.

7.2l For *Combat Table* DRMs, use the terrain in the defender's hex **and** any hexside terrain the *Attack unit* is crossing to make the attack.

7.2m Results include Losses (7.0c), Advances (7.4), and Retreats (7.5). Attacks can also result in the placement of Traffic Stopped markers (5.1g) The owning player applies these as desired, within the restrictions of other rules. Losses from the *Combat Table* cannot be applied to Support.

7.2n Attacking losses can only be applied to the Attack unit. Losses *never* apply to the Assist. If the Attack unit cannot absorb all the losses the attacking result requires, ignore the excess.

7.2o The defender **must** inflict the first loss on his AR unit and can then distribute any additional losses within the defending stack as desired.

7.2p Units which Attack or Assist are *Finished* for the Activation after doing so.

7.2q Units that are **Finished** *cannot* Attack or Assist. Units that have **Stopped** *can* still Attack or Assist. No unit can move after participating in a Regular Attack (other than the possibility of Advance after Combat).

7.3 Shock Attack

Shock Attacks are Attacks which allow *mechanized units* to continue to move afterwards.

They have special restrictions and freedoms not accorded to Regular Attacks. Use the Regular Attack rules with the following changes in effect. These rules are exceptions to a number of rules in various sections.

Shock Attack Requirements:

- Only Combat Units with a Tac MA can make Shock Attacks (7.3). They must have either an Assault Arrow **and/or Red or Light AV**.

- An enemy hex can **only** be Shock Attacked if it contains **no AV rating** (including Support).

- A hex can only be Shock Attacked if it is in an OBJ Zone (4.3c) and contains an enemy Combat Unit.

- If Air is to be used in the Attack, the hex must also be in the Command Radius of the HQ (8.1a).

7.3a Only Tac MA units shown as being Shock Attack capable on the *Unit Capabilities Chart* can conduct Shock Attacks.

7.3b Shock Attacks can only be made by a *single* unit (no Assist is allowed).

Follow the normal Attack Sequence, except only ONE Air Point for either a Suppression or Destruction mission (8.2) is allowed. Arty Points **cannot** be used in Shock Attacks.

7.3c Each Shock Attack costs one of the unit's Fire Events, but does not automatically *Finish* the unit like a Regular Attack.

Shock Attacks, themselves, have no MP cost, but the target hex **must** have a movement cost of 3 MPs or less (road MP rates can be used in this determination) for Tac MA.

A unit that is *out of MA* **cannot** make a Shock Attack, even if it has Fire Events remaining.

A given hex can have as many Shock Attacks made against it as the player can manage in an Activation (in addition to a regular Attack and any Attacks by Fire, Barrages, or Engagements that occur). A hex can have Shock Attacks conducted against it *after* a regular Attack has been completed (or vice versa).

A given unit can attempt to make more than one Shock Attack against the *same* defender's hex, given other requirements.

Design Note: *Yes, this all means that a unit could make a successful Shock Attack against a hex, Advance after Combat into it, and thereby get to 'move into the hex for free.' Remember, they are hustling at the time and the world is not as black and white as a unit's MA might indicate.*

7.3d Resolve Shock Attacks on the *Combat Table*.

7.3e Terrain and Shock Attacks. The following restrictions apply to all Shock Attacks:

- The Attack unit must be able to enter the hex for 3 MPs or less using Tac MA movement. If the hex would cost 4 or more (or is a 'P'), Shock Attack against it **is not** allowed. Roads *can* be used in this determination.
- All STOP movement effects are handled normally (including Traffic and EZOCs). A unit can make a Shock Attack *against* a STOP hex, and that STOP only affects the unit normally if it advances into it. If a STOP exists **in the Attacker's hex**, a Shock Attack **cannot** be performed.

7.3f If the Defender Retreats or is destroyed, Advance after Combat normally. The attacking unit can then continue to move if it has MA remaining, has not used both Fire Events, and is not STOPPED in the Defender's hex. If movement does continue after advancing into the Defender's hex, any EZOCs will affect the unit *normally* (including the need for *Stopping Engagements*).

7.3g If the Defender does not retreat or is not destroyed, the attacking unit can continue to move from its current hex if it has MA remaining and has not used both Fire Events.

7.4 Advance after Combat

7.4a If an Attack causes the defender to Retreat or be destroyed, the Attack unit **must** move into the defender's hex.

An Assist unit *stacked with* the Attack unit **may also** advance if the player so chooses **and the terrain allows it to do so**, but Assist units in other hexes (and, of course, any unit not involved in the attack) may never advance.

7.4b The advance into the newly vacated hex *does not* expend Movement Points.

7.4c Engagements cannot be made, and are not required, during an Advance after Combat.

7.4d EZOCs have no effect on Advance after Combat.

7.4e In a Regular Attack, the units involved are *Finished* and there is no movement after an Advance after Combat (regardless of remaining MA). Shock Attacks are different, see 7.3f.

7.5 Retreats

7.5a The *Combat* and *Engagement Tables* can produce *Retreat* results.

Situational Retreats are specifically listed as such on the *Combat Table* and could be taken as either a Retreat or as step losses depending on the situation involved. (7.5g)

Automatic Retreats are those listed at 11-12 or 13+ on the *Combat Table* and any Retreat from the *Engagement Table*.

Units can also conduct *Voluntary Retreats* (7.5i).

Important: Retreats **always** involve **all** the units in the hex. If a stack contains a mixture of unit types, use the Target for *Engagement Table* Retreats OR the defending AR Unit for *Combat Table* Retreats to determine the effects applied below.

Retreat to the Rear. The owning player Retreats his units in a direction that is 'locally to the rear'. Simply pick up the stack and place it in the new hex. Apply the guidelines below to determine a reasonable direction and destination. If more than one hex is roughly as qualified, the owning player can choose the one he prefers. The list below is in approximate order of priority, but do not drive yourself nuts ... it's just a Retreat.

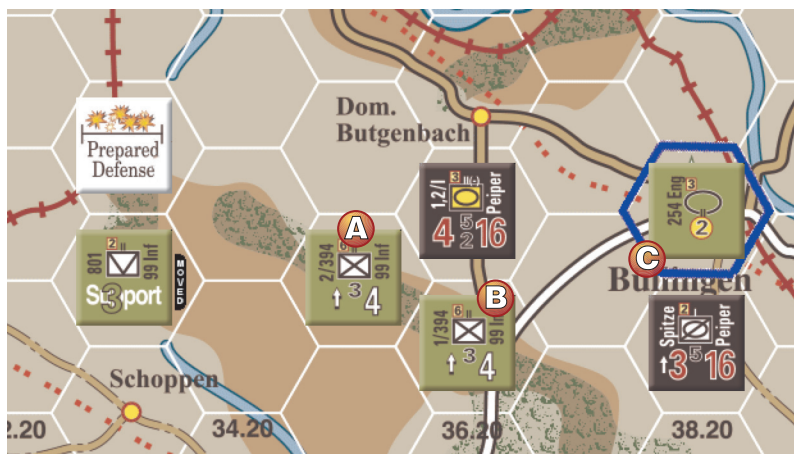
- Away from the local enemy units, especially the Attack and Assist hexes.
- End in a hex that does not contain any EZOC.
- End in Terrain rather than in the Open.
- End closer to the unit's HQ.
- Do not end in any hex blocking enemy Safe Paths or MSRs.
- End closer to the Formation's Combat Trains. If these are not currently on the map, use the Supply Source the Formation's Combat Trains last used instead.

7.5b A stack must Retreat together to a common hex if a 3-Hex Retreat result occurs. See also 7.5i.

Effects of No Safe Path. In general, if there is No Safe Path, all Retreat Results are automatically handled as "-1 step per unit, no Retreat" for Leg or Truck MA units. If the Situational Retreat result would have been executed as "-1 step per unit, no Retreat" anyway, then there is no change to the result.

Exceptions: No Safe Path **has no effect** on Retreats by TAC MA units or on any unit conducting Voluntary Retreats.

Shock Attack



Here the Prep Def and Support for the 99 ID is arrayed nearby for visibility in the example. OBJ Zones as needed are assumed.

In the first example, the German Panzer unit wishes to do a Shock Attack on the 99 ID Unit B. It cannot do one against Unit A because the terrain MP cost (4 for the STOP Terrain) is too high, but the road heading south into 36.21 allows such an attack. However, before this is possible, the Panzer unit must eliminate the STOP requirement created by the Support AV EZOC from Unit A and drop the Support from Unit B to allow the attack at all.

This, of course, is beyond the abilities of the German unit (it can try to Drop the Support from both US units, but in doing so it will be STOPPED for the Activation and out of Fire Events—unable to make any Shock Attack.

In the other example, Spitze is going to do a Shock Attack against Unit C. Here there is no Support or Prep Def as the Engineer is unprepared and in a Village (which is not Key Terrain in case a Situational Result comes up).

As a result, both of Spitze's Fire Events are available. The player decides to not do an Attack by Fire so as to save that Fire Event for later should the attack go well.

Spitze attacks with a 5 (AR) and +1 (Dual), for a 6. The Engineer defends with a 2 (AR), +1 (Terrain) for a 3. The Shock Attack has a net +3 DRM. Here the German player rolls a 8 which is modified to an 11. The Engineer takes the D1. It must Retreat. However, as the unit has no printed MA, 7.5f applies and the unit is automatically destroyed.

Spitze enters the hex at no MP cost and can continue to move and use its remaining Fire Event elsewhere.

Retreat Execution

See also the special rules regarding HQs (9.1f) or Combat Trains (10.3d).

Use the **first** listed which applies. (Use "All other Retreats" for Voluntary Retreats, as No Safe Path does not apply to them).

Retreat result and Circumstances

No Safe Path AND Leg or Truck MA

Execution

-1 step per unit, **NO** Retreat

Situational Retreat...

...AND *Key Terrain* or *Prepared Defense*

-1 step per unit, **NO** Retreat

...NOT *Key Terrain* or *Prepared Defense*

Retreat 3 hexes, **NO** Flip

Automatic Retreat AND Leg or Truck MA

Retreat to/adjacent to HQ & FLIP to Move-side (see box at right)

All other Retreats*

Retreat 3 hexes & FLIP to Move-side

* For *Voluntary Retreats*, each unit also suffers -1 step loss (7.5j)

If either (or both) of the following are true for Automatic Retreats AND Leg or Truck MA...

- The HQ is **less than 3 hexes** from the Retreating stack's hex at the moment of combat,

--OR--

- The Retreating unit **cannot** be placed w/i 1 of the HQ without overstacking. (Apply to each unit independently in the order chosen by the owning player.)

... take the unit off the map and return it to (or adjacent to) the HQ's hex in the next *Reinforcements & Weather Phase*.

Retreat



Here fires from Spitze have forced the 32 Cav to Retreat.

Because this is from the Engagement Table, the Retreat is automatically 3 hexes and a flip to Move-side. The flip does not occur as the unit is already on its Move-side.

Furthermore, the lack of a Safe Path does not matter as the unit is Tac MA.

The most logical retreat point is to Hex F. It is away from the local enemy, in terrain,

toward the HQ, and is on a road leading to the the HQ the enemy could use.

A and B are both bad because they are in EZOCs. C and D are not locally away from the enemy and are not closer to the HQ.

E and G not unreasonable, but are not as useful to the player as F.

H is a possibility, but risks blocking an enemy MSR on the nearby Secondary Road and would be ruled out if that was the case.

7.5c A Retreat's ending hex cannot contain an enemy unit of any type or be a hex the unit could not enter in normal movement. If the Retreat cannot be executed because all possible hexes contain enemy units or cannot be entered, the Retreating stack stays in place and takes an additional step loss per unit instead.

7.5d Except in the ending hex (7.5c), terrain has no effect on Retreat. The unit found a way.

7.5e If a Retreat's ending hex is in an EZOC of a type affecting the retreating units, each applicable unit takes one additional Step Loss. Engagement Zones have no effect Retreat.

Reminder: EZOCs that Apply to specific Movement Classes:

- Leg MA: All EZOCs
- Truck MA: All EZOCs
- Tac MA: Real AV EZOCs only, not Support AV EZOCs.

7.5f Important: If a unit which has no printed MA is forced to Retreat, it is destroyed instead.

7.5g Situational Results. Some Combat Table Results are Situational. These become a step loss instead of a Retreat if the affected defending unit is in *Key Terrain* or *Prepared Defense*. If the Attack unit is killed as a result of the Attacker's Loss result, ignore the defender's Situational Result.

7.5h The Map Edge. Any units may freely Retreat off the map edge. Such units come back as reinforcements in any Entry Area (owning player's choice) along that same map edge the next turn.

7.5i HQs and Combat Trains. These units Retreat following their own special rules (HQs see 9.1f, Combat Trains see 10.3d). If a Retreating stack contains HQs and/or Combat Trains in addition to other units, follow the displacement rule for HQs (9.1f) or Combat Trains (10.3d) as needed to Retreat those units; they are not affected by the requirement to Retreat a stack to a common location.

7.5j Voluntary Retreats. In lieu of any normal Movement, the Active player can self-inflict Retreats on Active Formation units if he desires. **Retreat 3 hexes and FLIP the Retreating units to their Move-sides. Each non-HQ unit that does a Voluntary Retreat (Safe Path or not) takes -1 Step loss. Having No Safe Path has no effect on Voluntary Retreats.**

Note: In a change from v1.0, any unit with an MA can do Voluntary Retreat, not just those with an Unprepared side (and HQs).

Only HQs can conduct a Voluntary Retreat under a Fail SNAFU result. Any Formation unit can do so under a Pass or Partial SNAFU result.

A unit that executes a Voluntary Retreat is Finished for the Activation.

8.0 Barrage

Artillery and Air fires are shown by the use of Arty and Air Points which can inflict either Suppression or Step Losses on the enemy using the *Barrage Table*.

There are two kinds of Barrage: *Destruction* and *Suppression*.

Destruction Missions involve one or more Arty/Air Points and roll on the *Barrage Table*.

Suppression Missions can only use one Point, have no roll for losses, but apply a DRM in combat (*Destruction Missions* do not award any DRM).

Arty/Air Point Use. In any Barrage outside of the Attack Sequence, the player can only use ONE Arty or Air Point.

Inside an Attack Sequence, the player can use up to THREE Arty/Air Points.

In any *Shock Attack*, the player can only use ONE Air Point and **cannot** use Arty Points.

8.0a Arty Points allow the player to make Barrages and are required to create a Prepared Defense (4.5). Each HQ has its number of *Intrinsic Arty Points* printed on it. *Arty Asset Points* can be assigned to an HQ which add to the HQ's Intrinsic Arty Points giving the Formation a greater overall number.

8.0b Arty Points associated with a Formation can be used at any point during that Formation's Activation, but each Arty Point can only be used once per Activation.

The total available Arty Points is refreshed in each future Activation, including a Second Activation if there is one.

Unused Arty Points cannot be saved and used later.

8.0c Make any desired Barrages before, during, and/or after any stack's movement.

8.0d Arty Asset Points. The scenario may issue the player *Arty Asset Points* which represent the assignment of higher level artillery units.

Arty Asset Points can be assigned and unassigned in the *Assignment Phase*. An HQ can be assigned any number of Arty Asset Points. Once assigned, **only** that HQ can use them.

The Arty Asset Points add to the Formation's Intrinsic Arty Points to create the total available for use.

8.0e Air Points. The player could also be issued *Air Points* representing available aircraft sorties.

Air Points follow the same handling rules as Arty Asset Points, except that Air Points are not assigned to specific HQs, can be used in any friendly Formation's Activation, and exist as a pool available to the player. Each Air Point can only be used once in a given turn.

Air Points cannot be saved from turn to turn.

Air Points are unaffected by SNAFU results.

Only Air Points can be used in Shock Attacks.

8.0f Suppression Missions. Arty and Air Barrages made during an Attack Sequence **automatically** earn the player a +2 DRM for 'Suppression' **IF** exactly ONE Air or Arty Point was used **and** NO roll was made for losses.

All Arty and Air Barrages *that do roll* on the *Barrage Table (Destruction Missions)* in the Attack Sequence **do not** obtain any *Combat Table* DRM.

Barrages made **outside** the Attack Sequence *never* generate the Suppression DRM.

8.1 Barrage Execution

8.1a Spotting. Arty and Air Barrages can only be made against hexes that are "Spotted" according to the following:

- 1) They are w/i 4 hexes of an Activated Formation's unit (including the HQ, but not Combat Trains).
- 2) The line from the spotter to the target must be one that would currently allow an Engagement Zone (Terrain and Weather affect this normally, 6.1b).
- 3) A unit that acts as a Spotter for a Barrage *not in the Attack Sequence* must execute a **STOP**.
- 4) The target must be in the Activated HQ's Command Radius and in an *OBJ Zone* (4.3c). These location requirements apply to the target hex, **not** to the Spotter.

8.1b Resolve *Destruction Missions* on the *Barrage Table*.

For each Arty/Air Point expended roll one die for each unit (target) in the hex. *So, a three point Barrage against a hex with two target units will require six die rolls to resolve.*

Use the row designated by the terrain and/or target type. The results for each roll will be either no effect or one Step Loss (losses come from the unit being rolled against at the moment).

8.1c If a unit is *not* in Terrain, but *can use* a Prepared Defense, use the table's Prepared Defense row instead of 'All Other.'

When firing at a Hard unit (1.2c) or City, apply those rows even if the target also has Prepared Defense (in other words, Prepared Defense never makes a unit *easier* to hit).

8.2 Barrage Missions

8.2a A hex can be subject to **only ONE Barrage Mission (of either type) per Activation**. This restriction does not affect Attacks by Fire.

8.2b **Declaration.** The Active Player must declare the number of Arty/Air Points being used before rolling. Once committed, the Points are expended, even if it turns out some are wasted.

8.3 Attack by Fire

Attack by Fire allows AV units the ability to engage non-AV targets.

Design Note: AV units fire on other AV units using the Engagement Table, but they fire on non-AV units using the Barrage Table.

The difference here comes from how the combat is being fought. Obviously, AV vs. AV is a contest of machines while AV vs. non-AV represents something more akin to shelling (aka Barrage) against the target unit's position.

8.3a Any number of Attacks by Fire can be made against a given hex, in any sequence the player chooses, even after attacks of either or both sorts.

8.3b Only units adjacent to the target hex can make Attacks by Fire.

Important: Attacks by Fire require the target to be in an OBJ Zone.

8.3c Each Attack by Fire is made by a single unit. Only unit types listed on the *Unit Capabilities Chart* as being able to make Attacks by Fire can do so.

The firing unit **must pass** any required *Stopping Engagement* before making an Attack by Fire.

Important: A hex **cannot** suffer an Attack by Fire if it contains **either** an AV unit or Support.

Artillery Barrage



Here several situations will be explained, all of which assume the needed OBJ Zones. It is the German Player's Activation.

He wishes to Barrage the three stacks of US units. These are the options that are available: He can fire one Arty Point at the hex as a Destruction Mission, and make no Attack, he can Attack and then use one Arty Point as a Suppression Mission, or he can Attack and use 1, 2, or 3 Arty Points as a Destruction Mission. He can only attack one of the three hexes with the Assist DRM for the second German unit, so the other two can only get a single Point Destruction Barrage each (he *could* use the two German units separately and attack two hexes, but would then forgo any Assist DRM).

If the Suppression Mission option is chosen, there is no roll for Step Losses, but the DRM for Suppression helping the attack is automatic.

For example purposes here, the player is going to Attack the 1/38 Inf Bn's hex and is firing 3 Arty Points at the hex in a Destruction Mission.

In Terrain, the roll on the *Barrage Table* to generate a Step Loss is 4-6. Because there are 3 Arty Points being used, this Barrage will take 6 rolls of one die to execute (3 on each unit in the target hex).

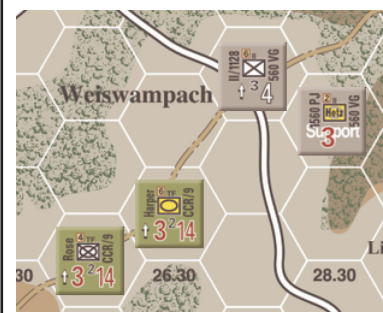
The German Player rolls 1, 6, and 2 against the top US unit for one Step Loss.

He then rolls 4, 6, and 2 against the bottom US unit for two Step Losses.

These losses are marked on the two US units and the Attack Sequence continues onto the *Combat Table* itself. Note that in spite of the large amount of Artillery poured onto the target there is no DRM for Suppression in this case.

Either before or after executing the Attack and its Barrages, the German player fires one Arty Point at each of the other two hexes (one of which is a double stack). This obtains one extra loss. The German player has used 5 of his 6 Arty Points, but has no further targets to use. The last point is wasted.

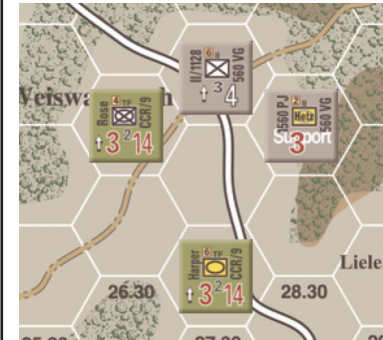
Attack by Fire



560 VG unit. Support displayed for example purposes. An OBJ Zone includes the German unit.

Here, Harper will move into an Open hex adjacent to the VG unit. No Stopping Engagement is required, but since the US player wants to hit the German unit multiple times with Attack by Fires, he must Drop the Support. The shot on the Support is a -1 on the Support Inv'd row of the *Engagement Table*. A roll of 8 Drops the Support.

Harper has used one of its Fire Events. The player wants to move out of this position to block the road as shown below, so Harper cannot expend its second Fire Event here and must move away.



At this point, TF Rose has moved into firing position both Fire Events available (the Support that was Dropped by Harper remains Dropped for the rest of the Activation). The German unit is in Terrain (a village).

Rose makes both shots and is now finished in that hex. The rolls of 4 and 6 equate to two Step Losses on the German VG unit.

8.3d Each Attack by Fire costs the unit ONE *Fire Event*. One Fire Event translates into one Barrage Roll per enemy unit in the Target hex, just like an Artillery Barrage.

8.3e Resolve Attacks by Fire on the *Barrage Table* like any Arty/Air Point Barrage.

8.3f Attacks by Fire cannot be made in the Attack Sequence and therefore can never be Suppression Missions.

9.0 Specialized Rules

9.1 Headquarters (HQs)

9.1a HQs move like any other unit.

Restrictions:

- HQs must **end** movement (or Retreat) in a hex containing a **non-RR road**. (5.4d)
- A *Retreating* HQ always generates a Coordination marker on itself.

9.1b HQs have normal Movement Allowance Classes (usually, but not always, Truck MA).

Regardless of the HQ's Movement Allowance Class, HQs **cannot** cross or enter terrain prohibited to **Truck MA**.

9.1c HQs **cannot** enter enemy Engagement Zone or EZOC hexes.

9.1d HQs do not count for stacking and have no ZOC.

9.1e HQs cannot be destroyed (see 9.1i) or used to satisfy a step loss. They do not count as the Second Unit for the defense of their hex.

9.1f Effect of Enemy Units. Enemy units can cause an HQ to Retreat through Combat or Engagement (as per 7.5) when the HQ is stacked with units which must Retreat. In addition, HQs must Retreat when an Enemy unit enters their hex (assuming there are no other units there—units in Support do not count).

Enemy *Unprepared* units, HQs, or Combat Trains **cannot** enter such a hex to force an HQ to retreat.

Ending Location: Retreat the HQ to any desired hex 3-hexes from its starting

HQ Jumping



The contents of the 106 ID's stack are splayed out around it.

KG Stephan approaching from the south needs to establish a Recon OBJ on St. Vith. This uses one Fire Event. The player rolls one die and gets a 2, which sets the OBJ marker in St Vith. This allows both the Shock Attack and the entry into the US controlled VP hex.

Stephan then makes a Shock Attack on the stack from 30.10. Note that there is no Support to Drop to enable this attack as there is no unit in the hex that can take advantage of the 106 ID's Support or Prep Def. The Shock Attack is a 6 to 4 or +2. Any roll of 9 or more will dislodge the HQ and destroy the Engineer. Because the city is Defensible Terrain, Situational Results will not force a Retreat.



The HQ has Retreated the required 3 hexes, it has lost its Prep Def marker, and the Engineer has been destroyed. The HQ will also need to be given a Coordination marker for having Retreated.

hex which must be any non-RR road hex that *does not* contain an EZOC or enemy Engagement Zone OR Block an *existing* enemy MSR.* There is no path of retreat for an HQ, simply put it in the ending hex. Flip its Combat Trains to Ghost. Remove the HQ's Prepared Defense marker, if any, and apply a Coordination marker to the HQ.

*The player can extend the Retreat of an HQ as desired provided it ends up in a hex fulfilling the above **and** is in a position where a complete MSR is possible.

9.1g The owning player can *voluntarily* retreat the Active Formation's HQ following the procedure in 9.1f.

9.1h Retreat does not alter an HQ's Activation status.

9.1i HQs without Units. If a Formation loses its last non-Support unit physically on the map in play**, pull the HQ, its units in Support, any units in the Dead Pile (including those which have used Repls) and Combat Trains from play (if 9.1j will apply, do not remove these units completely from play, they instead await the requirements of 9.1j off map). It does not matter if the Support **could** also be a real unit or not. Assets **assigned** to the HQ (Arty Points and Independent units) become unassigned. Arty Assets are pulled off the map, Independent units remain in place on the map, and all **can be re-assigned in the very next Assignment Phase**. No unit can be assigned to the now removed Formation to attempt to revive it.

** Units which will be returning to the HQ in the next turn because of a Retreat Result count as 'in play' for purposes of this rule. ✓

9.1j The HQ, Support units, and Combat Trains return to play only if more units arrive later, according to the Order of Arrival. In that case, these units arrive with the first such unit to do so and the HQ arrives with Fatigue Level 2. Then, and only then (with the HQ back on the map), can any of the Formation's units in the Dead Pile begin to re-enter play as they are rebuilt.

Design Note: *Effectively a Formation that is destroyed during the game is gone for the duration. The time frame shown is usually too short to show the rebuilding of major Formations. Exceptions, if any, will be noted in the Game Specific Rules. The player should work to retain at least one non-Support unit in play for a Formation so as to be able to rebuild units for it as the game goes along. Don't treat them as 'just cardboard.'*

9.1k Higher Level Assets. Higher Level Assets (Arty Asset Points and independent units) must be assigned to specific HQs in order to function. They can be reassigned only in the *Assignment Phase*. Jot assignments down in any convenient manner.

Distance, terrain, and enemy units have no effect on the reassignment of Higher Level Assets. See 9.5 for the procedure.

Unassigned Independent units cannot Activate at all, they merely sit in place.

If an Independent unit is destroyed, it becomes Unassigned and can be Assigned freely upon being rebuilt.

9.2 Support

9.2a Some units can be dispersed among the Formation's units as Support.

Only non-Dual AV units can be put into Support. Some units have 'Support' written on their counter—if on that counter side, they can only be in Support (if this is the only counter side they have, then they are permanently in Support and can never be anything else). **Light AV are the same as Limited AV when in Support.**

While in Support, the Support unit provides Support functions, but is **never** treated as a real unit.

Support units do not...

...count for stacking

...move under their own power (or affect the movement of any 'real' unit)

...take losses from Barrage, Attack by Fire, Regular Attacks or Shock Attacks.

...count as the Second Unit in a stack for defense.

9.2b A Formation's Support is available to **every** Assault Arrow unit in the Formation (*including* assigned independents) regardless of the Support unit's step size.

Support is NOT available if the unit is Support Dropped (marked or Temporary).

9.2c AV units (including Dual) **never** have access to Support.

9.2d Units can only change into or out of Support in the *Assignment Phase*.

9.2e To place a unit in Support, place the unit near its HQ or off-map (it is no longer an actual unit and need not have a literal hex location, it just needs to be associated with its HQ). The new Support need only be in a position where it *could* physically move to the HQ hex *on its Move-side*—given terrain and enemy units, but distance does not matter. Support-only units are assumed to have Tac MA for this purpose.

Place the counter with its **greater printed** AV rating showing while in Support.

Mark the HQ with a Support marker of the appropriate type (Red, Limited, or Stand Off).

9.2f When Support "re-concentrates" into a real unit, place the unit, on its Move-side, in the HQ's hex.

9.2g For all eligible Formation units, available Support...

...creates Support AV ZOCs

...may provide a *Combat Table* DRM

...determines some Engagement Zones

Remember, a Support unit only provides Engagement Zones to its Formation's units if it is a Stand Off unit.

...provides an AV for enemy Engagements against their host units

...provides protection from Shock Attacks and Attacks by Fire.

9.2h If a Formation has more than one unit in Support, the owning player can freely choose which one to use. Multiple units in Support can help with the defense against Engagements against supported units.

9.2i Dropped Support Markers. Dropped Support *markers* are placed when:

- a) The unit moves or retreats into/ across terrain that is P for Tac MA.
- b) When a Formation without Support assigns new Support but that Support "cannot get to the unit." *See the Support Dropped marker removal requirements below.*
- c) All a Formation's units are assumed to be 'Dropped Support' the moment all of its Support is removed or destroyed. There is no need to mark them as such in this case, it is automatic.

While Dropped, the units involved do not benefit from Support for any reason, including the ability to have a Support AV ZOC.

Remove Support Dropped markers at any moment when all of the following are true:

- 1) The unit is in Command Radius.
- 2) The Formation has something in Support.
- 3) The unit has a **Support Establishment Safe Path** (1.6).

Play Note: *KT-X brand plastic moved/fired markers are highly useful in marking Dropped Support in a way that does not hide the stack's top unit.*

9.2j Temporarily Dropped Support. There are cases where no Dropped Support marker is placed, but the unit has Dropped Support for the *remainder* of the Activation. There are a few Temp Support Dropped markers the player can use if he prefers to actually mark the unit.

This occurs from the *Engagement Table* (see 7.1k) provided both of the following are true:

- 1) The unit is in Command Radius.
- 2) The unit has a **Support Establishment Safe Path**.

If these are not true, actually mark the unit with a Dropped Support marker as per 9.2i instead.

Support Display on the Map



Support should be played out from the HQ's hex in any convenient manner to facilitate play.

Stack A has two separate units in Support, but only displays the Red Support marker since the Red Support can do anything the Limited Support can do (and then some).

Stack B is an option available for display using fewer counters for units that have a Support side to their counter. It is only shown here as an option, since effectively it should be in the Stack A as well (no need to expend extra map space on that unit).

Stack C, associated with the 99 ID, has no Red Support, only Limited, so it is marked with a Limited Support marker so the player knows the Support there is not capable of giving a Support DRM for attack purposes.

9.3 Reinforcements

Reinforcements enter play according to the *Order of Arrival Charts* or when rebuilt from the Dead Pile.

They are sometimes placed with their Formations or into specific hexes as listed on the *Order of Arrival Charts*, but most enter play by moving from designated Entry Area hexes.

All hexes of a specific Entry Area are marked with a common Entry Area letter.

9.3a Reinforcements are placed in the *Reinforcement Phase*. Place reinforcing Support units *with their HQ* (9.2e) at that time (record needed assignments in the immediately following *Assignment Segment*). Reinforcements slated to arrive at specific hexes (not marked Entry Areas) or at their HQ, must be placed in the Reinforcement Phase (they cannot wait for Activation as in 9.3b). Also, if they arrive at the HQ, they can be placed in the HQ's hex or in any of the hexes adjacent to the HQ; however, the chosen hexes cannot be Prohibited for the unit's movement class nor occupied by an enemy unit.

Upon placement, a unit can enter play with whichever side of the counter showing the player desires.

9.3b If more than one Entry Hex can be used, the exact hex(es) to be used are chosen in the Formation's first Activation. That decision cannot be changed once made.

Units cannot over-stack in an Entry Hex at the moment of placement. If there is an

excess, place it off map next to their Entry Area hex. Units begin counting MPs *as if they all started their move* in the Entry Area hex.

Design Note: *This mechanic exists to keep the hex from ending up overstacked on entry if the Formation botches a Reactivation or SNAFU roll.*

There is no Unit Traffic effect (5.1h) for units sitting in the Entry Hex.

Place the arriving HQ and Combat Trains in the Entry Area first and from there the Activation proceeds **normally** (to include matters of SNAFU and its DRMs, Command Radius and OBJ placement, etc.) In an Entry hex, the Combat Trains are assumed to be at Optimal Distance (10.3c).

9.3c Reinforcements can sit near their Entry Areas (off map) before entering as long as the player wishes—even into later turns.

9.3d Reinforcements cannot be Barraged, Engaged, or Attacked in any way before being placed in the Entry Area hex, but units in those hexes are fair game.

9.3e Reinforcements *can only move onto the map* from an Entry Area hex during their Formation's Activation.

9.3f EZOCs have no effect on the use of an Entry Area hex by any unit. If an enemy unit occupies a given Entry Area hex a unit could use according to the player's Order of Arrival, the entering units have the following freedoms:

- Enter via *other* hexes of the same Entry Area

—OR—

- Attack from 'Off Map' to enter.

Attacks from Off Map. If an enemy unit occupies an Entry Hex where reinforcements are attempting to enter via the normal Reinforcement rules, they can run an attack from off map to do so. ✓

If an *Attack from Off Map* is called for the following are always true:

- The entering units have a hex Off Map attached to the Entry Area containing the same kind of road, if any, as the Entry Hex. They can Attack (and Assist) from that hex normally, but cannot BE attacked or barraged in any way while in it. The Terrain of the virtual hex is not a factor and there is no hexside terrain between it and the on-map hex.

- A Formation needing to make an Attack from Off Map always has a Pass SNAFU to do

so. (Do not roll, and no, you cannot make use of this free SNAFU if the Entry Hex is not occupied by the enemy.)

- Attacks from Off Map are awarded a +2 DRM on the Combat Table in addition to any normal DRMs that apply (this DRM applies to Shock Attacks as well as to Regular Attacks). If the HQ is trying to enter as well, its full complement of Arty Points is also available for the attack.

- Once on the map, all normal rules apply to the entering units.

Design Note. Obviously, the 'problem' with map edge hexes is that players use them as literally the end of the world. The above rule allows the entering units to take advantage of the fact that not only does the world NOT end right there, but there are lots of units as well as space to operate that is outside the normal scope of play. So, if you don't want to deal with the dragons just off map, then back up to allow the normal use of the Entry Hex. Basically, Attacks from Off Map temporarily extends the map one additional hex out from the map edge and gives a couple of benefits (PASS SNAFU and the +2 DRM) to help the reinforcements get on the map. And, no, the enemy player cannot also try to occupy that off-map hex!

9.3g There are no **Isolation** effects on reinforcements attempting to catch up to their Formation HQ until they start an Activation in Command Radius. Be reasonable about this—this rule only exists to keep reinforcements from tripping up behind the lines.

9.3h Combat Trains, unless specifically stated otherwise, *always* arrive on their Regular (non-Ghost) side. Other units which have Alternate counter sides, can arrive on either side. Arriving units can be in Support (or not) as desired and allowed.

9.3i Reinforcements to be placed at an HQ instead of a Entry Hex should follow 9.5 with a pathway from a Friendly Entry Hex. If this is not possible, the reinforcements must wait to enter the next game turn.

9.4 Replacements

9.4a During each *Reinforcement Phase*, the players may acquire *Replacement Points* (Repls).

Exception: Do not roll for or otherwise acquire Repls to use on the **First Turn** of any scenario. They are already accounted for in the set up.

9.4b Repls come in two flavors: AV and non-AV.

A unit **with** an AV (on either counter side) can *only* use AV Repls.

One with no AV on either counter side can only use non-AV Repls.

The player is otherwise free to use his available Repls as desired given the restrictions below.

9.4c Repls can only be used to rebuild units...

...in Command Radius.

...whose Formation Combat Trains are in a Legal Hex.

...with a Safe Path traversable by Leg MA for non-AV Repls or Tac MA for AV Repls.

—OR—

...which are in the Dead Pile.

If a dead unit gets a Repl, place it in or adjacent to its HQ's hex (which can be in an EZOC). If the HQ's Combat Trains are not in a Legal hex, the rebuilt unit must remain in the Dead Pile until the Combat Trains are legal. Units can accumulate Repls in the Dead Pile and come back to play on any later turn, if desired, given the Combat Trains are Legal requirement. If the HQ is eliminated from play according to 9.1i, then any partially rebuilt units in the Dead Pile are removed from play as well and the used Repls are wasted.

9.4d Each Repl applied rebuilds one step.

No unit can accept more than **ONE** Repl in a single *Reinforcement Phase*.

Units can never accept more steps than the counter's full-strength step number.

9.4e Non-Rebuildable units (1.2c) cannot accept Repls.

9.4f Reinforcing units on the Order of Arrival which have less than their maximum number of steps can be given Repls before arrival.

9.4g Repls must be used the turn available and cannot be saved for later. Unused Repls are wasted.

9.5 Independent Units & Assignment

Independent units must be assigned to a Formation to function. If the Game Rules require units to remain unassigned, they cannot Activate or function in any way (except to defend themselves) until (and if) they are assigned.

Assign Independent units and Arty Asset Points to the desired Formation in the *Assignment Phase*.

Simply place them in their newly assigned HQ's hex at that time. A transferring unit must be in a position where it *could* physically move from where it is at the moment to the new HQ's hex given Terrain, EZOCs, and enemy units—but distance does not matter.

To be eligible for assignment, Independent units and Arty Asset Points must be currently unassigned when the *Assignment Phase* begins.

To unassign an Independent unit or Arty Asset Points, do so in an *Assignment Phase*.

In the case of an Independent unit, leave it where it is and it will be unable to Activate until assigned in a future turn.

Pull Arty Asset Points off the map for storage until they are again assigned.

The situation of a Formation giving up Arty Asset Points is irrelevant. If a Formation is destroyed, place its Arty Asset Points into the pool for future use.

10.0 SNAFU, Supply, Fatigue & Isolation

10.1 SNAFU

Supply and other logistical concerns (including transportation, routing, march traffic control, and simple friction) are abstractly handled using the *SNAFU Table* roll.

10.1a A SNAFU roll is required each time a Formation Activates. A separate roll is made for Second Activations.

10.1b A SNAFU roll uses two dice and an assortment of DRMs on the *SNAFU Table*. The DRMs are the result of Coordination (4.4), Fatigue (10.4), Main Supply Routes (10.2),

Combat Trains (10.3), Mixed Formations (10.1e), and MSR uses Tracks (10.1f). There are also Game Specific SNAFU DRMs for each side listed in the player specific booklets for each game.

SNAFU results can be Pass, Partial, or Failure.

10.1c Reinforcing Formations roll for SNAFU normally.

10.1d The effects of SNAFU results are given on the *SNAFU Result Effects Chart*.

10.1e Mixed Formations. Formations are 'Mixed' if an Active unit is in, or enters (including being placed as a Reinforcement), a hex within the 'Simple Blob' (see below) of any Inactive friendly Formation. In addition to the SNAFU effect (if this condition exists

at the moment of the die roll), apply a Coordination marker to each Formation involved if it does not have one already. Check for possible Mixing throughout a Formation's Activation.

A 'Simple Blob' would be the smooth shape including the outermost units of a Formation. See illustration below.


Ignore Combat Trains, units out of Command Radius, Unassigned units, and 'Buddies' when determining the 'blob' of a Formation.

Mixed status can vary based on the order Formations Activate. For example, in the illustration below, if the 26 VG Activated first, it would be Mixed with the 2 Pz Division.

Design Note: This Blob concept should be a simple observation by eyeball. The Formations are either using the same area or not. Don't overthink it, just look at what is going on. Yes, if a unit Retreated to a bad location, you might now be Mixed while you Activate to fix the mess. Players can be tempted to 'check boxes' to see if they will create Mixed Formations or not. They should consider that 'skirting' the next Formation essentially means the Formations are mixed. Make it clear and don't fight over a specific hex or such. If the Formation's Blob is cleverly intertwined with another Formation: It is Mixed.

10.1f MSR uses Tracks. This SNAFU DRM applies if any hex of the MSR from the HQ to the Combat Trains (inclusive) is Track instead of a better road type. The number of such hexes used does not affect the value of the DRM.

SNAFU



Here the 112 IR is Activating and needs to make a SNAFU roll. The pathway to the 112 Inf Combat Trains is blocked by the German unit at A. There is no other available path to the Trains (B cannot be used because it is a Railroad). So the Trains are in an Illegal hex. They will be removed later in this Activation if the MSR cannot be re-established and a Legal hex found for them.

Because the Trains are Illegal, the various DRMs associated with Legal Trains do not apply (if the Trains were Legal here, both Optimal Distance and Crossing the Streams would apply for a net +0). Instead, only the -3 for the Illegal Trains applies.


CCR/9 is Buddies (Last Blitzkrieg rule 1.7) with the 112 IR, so they cannot be Mixed.

It is Dec 18, so the Game Specific SNAFU DRM is -1. Giving a net DRM of -4.

With a -4, on two dice, a 6 or less will be a Fail, 7-10 a Partial, and 11 or 12 a Pass.

However, even a Pass will be applied as a Partial since the player wishes to keep his Prep Def.

Mixed Formations



Here the 2 Pz Division is Activating and needs to assess the location of the Smooth Blob of the Inactive friendly formations in the vicinity (here the 26 VG Division). At the moment, no unit of the 2 Pz Div is inside the Simple Blob of the 26 VG, so no Mixing exists at the moment of the SNAFU roll, in spite of the awkward location of v.Bohm's Recon KG.

Note that Mixing will probably occur during the Activation as 2 Pz units use the Primary Road through Clervaux, they will automatically Mix by moving through the hexes containing the 26 VG units, resulting in a Coordination marker for both the 26 VG and 2 Pz Divisions.

10.2 Main Supply Routes (MSRs)

10.2a For a Formation to operate normally, there must be an MSR from its HQ to a Supply Source through its Combat Trains which follows the requirements of 10.3a.

10.2b MSR Blocked. In the *Preparation Phase*...

...if the Formation's Combat Trains **are off map**, apply an MSR Blocked Level 1 marker, or increase its existing MSR Blocked marker to Level 2.

...if a Formation with an MSR Blocked marker has its Combat Trains on the map **and** those trains are currently in a Legal hex (10.3a), remove any MSR Blocked marker (either Level).

Formations with any MSR Blocked marker...

...apply the *Combat Table* DRM to any unit of the Formation on the attack or defense.

...have a negative DRM on the *SNAFU Table* equal to their MSR's Blocked Level (in addition to the DRM for having illegal Combat Trains).

...cannot have a Prepared Defense marker.

10.2c Any number of Formations can *share* a single MSR, but at the expense of 10.2d.

10.2d Crossing the Streams. Apply a -1 DRM to SNAFU if the path between the Formation's HQ and Combat Trains uses any hex of the path used between another Formation's HQ and its Combat Trains (inclusive of the HQ and Combat Trains hexes themselves).

10.3 Combat Trains

'Combat Trains' represent each Formation's forward supply package and rear area establishment.

Combat Trains are required to link the HQ to the map edge's supply source. An HQ can only define an MSR using its own Combat Trains.

10.3a Legal Hexes. A Legal Hex for a Combat Train requires **all** of the following to be true:

- It is a **Primary** or **Secondary Road hex**. *Exception:* Track hexes are allowed in an *Entry Area* hex.
- The hex is connected to a Supply Source using only contiguous Primary and/or Secondary Road hexes, or (in the case of an Entry Hex) is a Supply Source itself.
- The hex is connected to the HQ by a contiguous path of any sort of non-RR road hexes **using the shortest route available (player's choice of measuring in hexes or MPs)**. Once established, the HQ-to-Trains trace path may not change until the HQ or Trains are moved, the trace is disrupted by the enemy, or the HQ/Trains are jumped and forced to relocate.
- The hex and the entire MSR (HQ to Supply Source, exclusive of the HQ's hex) does not contain EZOCs, enemy Engagement Zones, or any enemy units. Friendly units do not negate any enemy effect for this determination.
- The hex does not block an existing enemy MSR.

10.3b Movement & Ghost Side. Combat Trains 'move' in the *Activities Phase*. Combat Trains **must** move if they are not currently in a Legal Hex. If they cannot move to a Legal Hex, remove them from the map.

Combat Trains 'move' by merely plucking them off the map and placing them in a Legal Hex. Flip the Trains to Ghost if they move. Combat Trains that will end an Activation outside the Optimal Distance (in either direction, 10.3c) must flip to Ghost.

If the Combat Trains **are** in a *legal hex*, at *Optimal Distance* (10.3c, including the map edge exemption) **AND didn't move in the current Activation**, they can flip out of Ghost to their Regular side in the *Activities Phase*.

Combat Train removal merely requires them to be plucked off the map from whatever their situation. When they return, place them in any desired Legal Hex (if there is none, they can not enter).

Unless stated otherwise by the Order of Arrival, all arriving Combat Trains are on their Regular, not Ghost, side.

In an Activation, Combat Train Movement, if done at all, can only be one of the following:

- From one Legal Hex to another Legal Hex.
- From off map to a Legal Hex.
- From an Illegal Hex to a Legal Hex.
- From an Illegal Hex to off map.

10.3c Optimal Distance. The MSR between the Combat Trains and their HQ must be between 5 and 15 hexes (inclusive) to gain the effect of the *Optimal Distance* DRM. Furthermore, the DRM cannot be applied if the Combat Trains are further from the Supply Source than the HQ (or 'forward of the HQ'). A quick way to check is to see if the MSR trace from the Combat Trains to the Supply Source and the trace to the HQ share any hexes (ignoring the hex of the Combat Trains themselves).

This DRM *automatically* applies if the Combat Trains are **in an Entry Hex** and the HQ is not more than 15 hexes away. Combat Trains in this situation can ignore the 'must stay Ghost' rule below.

If a Combat Train ends an Activation unable to apply the Optimal Distance DRM, it must enter Ghost (if not already) and is not able to recover from Ghost.

10.3d Effect of Enemy Units. Enemy units can cause a Combat Train to Retreat (7.5) when the Combat Train is stacked with units which must Retreat. In addition, Combat Trains must Retreat if an Enemy unit enters their hex. Combat Trains can never be captured or destroyed.

Enemy *Unprepared* units, HQs, or Combat Trains **cannot** enter a hex to force a Combat Train to Retreat.

When a Combat Train Retreats, displace it **10 hexes back** along the MSR toward the Supply Source they could be assumed to have been using last. **Flip them to Ghost.** If they are w/i 10 hexes of the Supply Source itself (the map edge), they can stop in the Map Edge hex or shift to another Entry Hex Supply Source.

The ending hex of the displacement cannot contain an enemy unit, but may contain an EZOC or Engagement Zone. The displacement must be (unless exempted above) 10 hexes along a Primary or Secondary Road, but enemy units along that route have no effect on the displacement.

10.4 Fatigue

Fatigue in *BCS* represents the accumulation of stress on a Formation to the point where its dependability becomes questionable and rest is required.

Players will need to manage Fatigue accumulation versus the Formation's operational tempo to ensure his forces are not caught flat-footed. He can do this by controlling how the Formation is used and by conducting Recovery when he can.

10.4a Fatigue (Fat) Levels, Marking, and Effects. Each Formation has an associated Fatigue level (or just *Fatigue*, for short) which is marked with a Fatigue marker. Fatigue is a progression from Fresh to Fatigue Levels 0, 1, 2, 3 and 4. Fat-0 is normal (Fresh is 'better' than normal) and Fat-4 is exhausted. Fatigue can never increase beyond Fat-4.

Keep the appropriate marker with the Formation HQ to identify the Formation's Fatigue.

Fatigue affects the SNAFU roll as a DRM and Fresh applies a +1 to Second Activation die roll attempts.

Fat-4 Formations cannot have a Second Activation. (3.5)

10.4b Increasing Fatigue. Determine if there is a Fatigue Increase in the *Fatigue Increase & Isolation Effects Phase*. The maximum Fatigue Increase for any single Formation Activation is 1.

If a Formation executes any of the following activities, it must roll on the *Fatigue Increase Table*. Roll for the worst applicable situation (i.e., the one most likely to give a Fatigue increase).

- Placing any OBJ markers
- Engagement or Attack by Fire
- Regular or Shock Attack (See also 7.2j)

If none of these situations apply, there is no Fatigue Increase.

10.4c Recovery. Formations can Recover Fatigue given the following:

- a) The Formation must have its Combat Trains in a Legal Hex.
- b) It has not already Recovered in the current Game Turn.
- c) It is not already Fat-0. (No Formation can recover to Fresh *during* the course of the game.)

Announce that the Formation is doing Fatigue Recovery in the *Preparation Phase*. Do not make a SNAFU roll. The following are the **ONLY** actions allowed during the Activation:

- a) Remove any Coordination marker the Formation might have.
- b) Flip the Combat Trains from Ghost side to normal side if allowed.
- c) In the *Fatigue and Isolation Effects Phase* reduce Fatigue by one level, then apply Isolation, if any, normally.
- d) **Remove Dropped Support markers, given 9.2i.**

Play continues normally from that point in the sequence.

Failure Flip. If the player intends to do a regular (*non-Recovery*) Activation and obtains a Failure SNAFU roll, he may to execute a "Failure Flip" and convert the Activation into a Recovery Activation at that point (meaning only those actions listed above for Recovery can be done; negate anything done in this Activation prior to the SNAFU Roll).

Failure Flip *can only be done* in **Initial Activations** and the player then **forfeits** the Formation's potential Second Activation (when this is done, the Formation is automatically Done for the turn).

Follow the actions above at that point as if the player had chosen a Recovery Activation instead and mark the Formation Done. The player can choose to accept the Failure SNAFU result and play from there normally with no Recovery.

10.4d Fresh Formations. These units are in better than normal condition. They get a +1 DRM for SNAFU and Second Activations.

When their Fatigue increases, remove the Fresh marker and they become Fat-0.

10.5 Isolation Effects

Isolation occurs when units are cut off from their HQs and increases the degradation of a unit's capabilities—dramatically, if the situation is bad enough.

Apply the following losses to any Active unit that qualifies in the *Fatigue & Isolation Effects Phase*.

For each stack of the Formation...

Case 1: ...with no Safe Path OR is Out of Command Radius: Destroy one step per unit.

Case 2: ...with no Safe Path AND is Out of Command Radius: Destroy two steps per unit.

Additionally, for both cases:

If the Formation is marked MSR Blocked Level 2: Destroy one step per unit.

Complete Command Disruption:

If ALL a Formation's units (ignoring the HQ and Trains) are subject to Case 2 above: Remove the HQ and all its units from the game. See 9.1i for the procedure.

Fatigue Examples

At the end of each of the following Activations, the player attends to Fatigue as follows:

- The player did not Attack, Engage, or place an OBJ marker at all. Do not roll, Fatigue cannot increase.
- The player conducted a Fatigue Recovery Activation. Reduce Fatigue by one.
- The player placed an OBJ, but made no Attacks, Barrages or Engagements. Roll one die. On a result of 1, increase Fatigue by one.
- The player placed an OBJ and made an Engagement. Roll one die. Fatigue increases by one if the roll is 1 or 2.
- The player made numerous Engagements, plus one Shock Attack. Roll one die. Fatigue increases on a roll of 1-3.
- The player makes several Attacks of both sorts, but no Engagements. Roll one die. Fatigue increases on a roll of 1-3.

Designer's Notes

How'd the bus get to this stop anyway?

BCS was a long time in gestation. Many a playtester's printer, and much of the forests of South America, went to the great beyond trying to keep up. But what was the origin of this effort?

Well, in the beginning it was envisioned as nothing more than a "Battalion-level *OCS*" adaptation. A change of scale—only—allowing for smaller units and battles. Nothing to it, I thought. Yeah, right.

It wasn't long into the work that it left the *OCS* far behind (battalion level is *much more* than the operational level system could show, even with smaller units). I wanted to do battalion level *right* and show the player things that other systems just didn't bother doing—primarily because they continued on to where the road I started on would have led: taking fundamentally operational rules sets and shoe-horning them into the smaller scale.

That started a very wild ride.

The Big ideas

If I may be so bold, I think I've come up with a few ideas of note in my 25 or so years of professional design work. Each caused a stir when released of "that just can't work" but each has stood the test of time in one way or another. Love them or hate them, they are what they are.

They are, I think, actual advances in the art of wargame design and my own small contribution to the effort to show warfare in a way that actually teaches the player something beyond just some "neat mechanics which are popular at the moment." I am quite proud of them.

These are: the written orders system in *CWB/RSS/NBS/LoB*, the graphic orders system in *TCS*, the surprise roll mechanic in *OCS*, and I'll dare to add... the Combat Trains & Traffic systems here in *BCS*. (Noting that the Traffic rule did mainly become optional due to the workload it added.)

In and amongst these big items are a slew of other things I'm proud of that don't rise to this level. Things such as the "Grail Games" (*DAK*, *Last Blitzkrieg*, and *Last Chance for Victory*), the analysis of Gettysburg in *Last Chance for Victory*, the Boss Points system in *Karelia*, the victory system in *Heights of Courage*. But, these are not the same as the top tier concepts above.

So, how do things as "tiny" as Combat Trains or Traffic find its way into the same list as the various orders systems and the *OCS* surprise mechanic? It is the result of what they do and show.

Supply rules are, pretty much, a barren wasteland of design effort. Only a few care to even try and just slap in the standard "trace and you are good" mechanic on their way to the 'cool kid' mechanics like cards and chit pull. It's the red-headed step child of design work.

When it is looked at directly, designers might give it some attention in details such as the availability of Supply Points, maybe types of SPs, and the transportation of them. In all, this amounts to "if you have enough of the right kinds of stuff, you are good to go." Certainly, *OCS* made a career out of exactly that kind of decision making.

Even those games that attempted to go well *beyond* that which was reasonable for players to do (I'm looking at you, *Campaign for North Africa*) did so with an accountancy-based system of Supply Points of some sort (or a dozen) and a boat-load of mechanics that allowed their use in various mixtures to get a specific end result (or not). But still, when stripped of all the Rube Goldberg sub-systems, if you had SPs, you could do whatever it was you were trying to pay to do. If you had X times the number of points needed, you could do that activity X times and so on.

Originally, *BCS* had a system that grafted over the *OCS* one. Players were given SPs (two kinds here—Ammo and Fuel) and literally paid for what they wanted to do. One twist I tried was to ignore the transportation of SPs on the map. There were no trucks. Rather, players issued SPs to the HQs (each of which had a "Lift" capability). You could give an HQ all you wanted, but if the HQ moved,

it would bring only its Lift value along with it—the rest was destroyed and wasted. The idea was to show that the primary ingredient in logistics in warfare is *waste*. As one would expect, testers reacted by placing only those SPs with the HQ which it could move to avoid losing any.

That effort became a drill of screwing over some Formations so that others could live large. On top of that, fuel use payments were made behind the scenes so that only Ammo made it to the map anyway—and players were constantly finding literal limits to what they had available and balked at the restraints it put on them (especially when one of the "stripped" Formations had to defend).

Historically, this became a problem as well. The Americans were flush enough that in most situations, I just assumed they had all they needed and skipped logistics entirely.

The Germans could be given their points in one of two ways: a huge supply at start and a trickle coming in each turn (fairly accurate to what happened) or a smaller dump at start and a larger amount per turn.

Neither worked.

Both were crushed by the same accountancy mentality they promoted. If the Germans were given the huge dump, by putting "unwelcome" Formations on a starvation diet, the "prime" units were never affected by supply shortages (and much of the army would not bother participating in the campaign). The smaller dump version didn't allow the historical initial spasm of activity, and even then still encouraged the starvation of the slow and the weak.

Along the way, the literal SPs gave way to the abstract LOG (what later became *SNAFU*) die roll which, forced some Formations in some situations to do less than the player wanted. It got the job done, but was relegated so far into the background that logistics, as such, seemingly disappeared from the game.

We played on, refining the other systems in the game (bringing them, with the great and always insightful help of my dear friend **Rod Miller**, to an extraordinarily high level of polish and shine).

A certain level of unease started to settle in on me when I looked at the result. Recalling that I wanted *BCS* to show *something more*. *Something more* than down-scale operations, but also *something more* than the straightforward level of “ZOC-Bonking” seen in so many titles already. I began to wonder if *BCS* had lost a bit of its philosophic underpinnings and become something I started calling “SCS with Engagements.”

This led to an effort that spawned efforts at re-inserting the “something more” soul: OBJs, Traffic, and Combat Trains.

OBJs simply applied some of the player’s effort toward the planning of operations for a Formation. They limit the number of different directions the Formation could manage at one time and limit how well he could react to events as they unfolded.

Before, a Formation could split up to the four winds to do any number of microscopic jobs all at once (or worse, execute what my son, John, did and run what I termed a “Bubble Offensive”). None of those things looked anything like what the real Formations could, or did, do—always an excellent tip-off that something isn’t right.

After some experimentation, the fairly straightforward OBJ marker placement system addressed these and numerous other issues. On top of that, I was able to dedicate a simple system allowing players to make use of the critical assets of these Formations: the ability of some units to conduct recons of locations that became useful after the Activation began (so as to take advantage of the evolving situation.

The optional March OBJ rule brings out a modest, but important, effect of committing the player even more to a specific course of action.

Traffic came about later but addressed player concerns that while two Formations would interfere with each other via the Coordination rules, inside a given Formation, march congestion was never an issue. Now (when using the optional rule), players must carefully orchestrate their movements so as to avoid causing traffic blockages that will quite realistically jam up the movement of follow-up units. And even then, Murphy raises his ugly head when an attack clumsily ‘barely wins’ leading to a situation blocking the way.

At this time, logistics began to make a come-back into the system. Trains were added first, but were merely placeholders for the road net needed to operate the Formation (leading to rules about ‘MSR Congestion’ which later converted into restrictions on coming back into ‘in Service’ and later ‘LOG Congestion’ which eventually became ‘Optimal Distance’ and ‘Crossing the Streams’). These worked nicely and the players responded well to the planning and care needed to “do things right.”

Moving the Trains results in them flipping to their ‘out of service’ (Ghost) side and inflicting a DRM on the formation’s SNAFU roll. Players reacted with care as to when to shift the Trains around and when to wait. This was good, but something still seemed to be missing. That something is what elevated Combat Trains from a simple mechanic to *something more*.

It was the addition of *Logistical Inertia* and *Supply without Accountants*.

But, ya gotta count them Points!!!

Trained by the games that even bothered about it, players learned to think of logistics like accountants. You have a pool of resources which are both quantified and discreet. You draw them off at some constant level for the actions you’d like to do and can repeat that process until you run out. When you run out you are done until you can get some more. Logistics was literally a matter of resource allocation and nothing deeper.

Cardboard units have no needs (or feelings) when you choose to not use them. So, you can deny Formations all ammunition and fuel so that your favorites can make use of those points. Those stripped units will cheerfully await the end of the war, costing you nothing in the meantime, while they sit on their hands and watch.

Not much of that reflects reality.

Your resources are in a state of flux to an unknown degree. Errors exist in the inventory of what you have, spoilage is occurring, parts were mislabeled or put on trucks going to the wrong units, supplies you counted on get pilfered by units that thought they had more use for them than

the ones you chose, all manner of things are making the clear cut become vague and unknowable—some of which are difficult to imagine—and all completely beyond your control.

Every activity has a cost, true, but the amount of the cost is only known in general terms and the planning figures can be thrown out the window by unforeseen conditions, unit behaviors, and waste. What you thought should last for four days ends up being burned down in two while something else set up for four days seems to be lasting forever. And your best guess on hospital beds was simply wrong.

Inactive units still use food, fuel, and even ammunition. Troops have a bad habit of stealing from neighboring units (“They can make that good, right?”) and bulldozing dead vehicles off the road instead of sending them back for repair. Nobody knows what happened to the cases of ammo Private Snuffy was supposed to bring from the unit’s last position. Supply sergeants the world over maintain private stashes of material for trading purposes and ‘rainy’ days. “They asked for two of them? Grab three, you never know what might come up.” No unit is so inactive that it doesn’t continuously tap into your—still unknown—resources. Nor do they (and their commanders) react well to the idea of “you are going to be helpless while we send all the fuel to so-n-so.”

Ask Patton about that.

Yet, game supply systems invoke a world where the exact opposite is true on almost all of these points. Accountancy systems cannot help but measure with precision a system that has ‘precision’ in only the roughest terms. Accountancy rewards “just enough” thinking; real life revolves around pushing as much forward as you can, as fast as you can, and wait for the war to be won. You don’t know where “just enough” exists between “failure due to not enough” and “too much”... so you opt to risk too much.

The SNAFU (originally LOG) system bypasses the accountancy game. The typically player-driven main effort business is impossible to create (because you can’t). Predictive certainty in results “where it really, really matters” is illusive. The trucks might get stuck or not arrive at all—not based on where it is important, but like Mr. Murphy says, where it’ll probably hurt

you the most. What's available in the depot doesn't translate into a discreet amount of activity on the map. Or, for that matter, a dip in depot reserves may or may not show up as a specific reduction. Eventually, as the Germans see in **Last Blitzkrieg**, their weak logistical system will give them an **overall** reduction in effectiveness—but the player will still not be able to starve some units in order to keep his panzers gassed up.

Furthermore, without the 'accountants gone wild' method of supply, the player himself cannot say with certainty that formation X will do everything he needs them to do. The overall supply situation will produce a distribution of capabilities across the map that reflects itself, but the player can't count on any given activation turning out for the best.

All of that brings logistics more into line with reality better than the more precise *looking SP* based system accomplishes.

One last point about prioritization, of course the real commanders can *try* to force scarce resources away from one sector so as to help out another. That's not at issue. The problem with the game model is that such actions are taken as *standard behavior* and executed with *ruthlessness* and *precision* that is simply impossible in real life. We all see this a lot in games. Players will ask me for a rule covering a certain action that a given unit did in a very special situation. No doubt—they really did it. Problem is, should I allow that action in the rules, players will use it frequently and in situations that are nowhere near as extreme as the reason it was done in real life. So, therefore I cannot allow the exception.

As time went on, the need to insert other items of friction, confusion, and outright failure into the 'LOG' system caused me to change the name to SNAFU. Logistics is (of course) still an important part of why units might not do all you ask of them—but so too are traffic control, command failures, and the myriad of other reasons all of which force 'but it looks so easy on a map!' into not translating into reality.

Inertia of what?

There are a couple levels of inertia built into Combat Trains.

When the Trains are jumped by the enemy, they bounce backwards (which brings its own

inefficiencies) or eventually end up offmap, if a legal hex is unavailable (which brings bigger ones) creates less than optimal behavior on the part of the formation.

A smaller effect is when the Trains move and temporarily go "Out of Service" or into Ghost. Once on their Ghost side the SNAFU problem can compound until you get your lines of communication straightened out. It's reasonably mild, but can degrade sloppy play in favor of the player who takes the time to mitigate and minimize the effect.

The choice of when and where to move on the part of the player is a drag on his freedom of action. In a perfect world, he'd be able to shift the Trains, right now, to where he needs them without the fuss of having them re-establishing themselves. If he chooses to shift too soon, he risks a hiccup in his logistical net. If he moves them too late (or not at all), he could find the speed of his operations degraded as the Trains try to keep up and maybe can't. In any event, we can count on Murphy making the worst possible thing happen at the worst possible time.

As with units tripping each other because of Traffic, rear area establishments (HQs and Trains) must be positioned with care to avoid crippling the movement of other units or Formations.

Mechanical Mechanics

There are quite a few mechanics in this system that go against the grain of traditional wargame fodder. All were carefully chosen to show what they are designed to show, and tempered by exhaustive testing. All contribute to my goal of giving the player an insight into this level of warfare he's been denied until now.

Alternating Formations within the turn (as opposed to either a IGO-UGO framework, or full-on Chit Pull) was designed to allow both sides to both have more lower level interaction than IGO-UGO allows (with less perfect across-the-map coordination of your own side, and no need for special 'inactivity' (read: Reserve) phases and rules) yet also allows the player more input into what he wants to do (theoretically based on relative importance) than you get with completely random Chit Pull.

The order of Formation selection by default assigns some Formations a type of reserve status as they 'wait and see' what happens now in order to exploit the new situation later at the cost of not influencing the situation right now. Likewise, the Reactivation choice at the end of the initial Activation gives them the chance to exploit what they just did before the enemy can interfere. It does so with a strong nod to the agility of the Formation involved as well (through the die roll needed to get it). Simple and gets the job done very well, in my opinion.

Reactivation itself allows the Formation to (maybe) do more in the turn and that "maybe" is luck driven with a probability based on the Formation's ability to think on its feet and react rapidly to events.

The final Engagement/Attack/Barrage system for combat resolution is the result of a very long and convoluted series of trials and (mainly on my part) errors to get the best balance of playability combined with the distinguishing features of armor and infantry combat at this level.

In a brutal over-simplification this can be seen as armor spars with opponents at range (and sometimes rams straight into enemy held hexes), infantry gets in the enemy's face and literally assaults their position, and artillery lays waste to whole areas in the hopes of inflicting losses.

Of these, artillery was the simplest—they provide a chance of inflicting step losses. There were a number of side-trips along the way (usually dealing with interdiction in various forms, all of which were subject to easy abuse and not worth the weight of rules needed to have them around).

Infantry ground assault was also pretty straight forward. We went through a lot of modifier permutations to pick the best ones to retain, adjusted the table to the point where it gave the right level of losses mixed with retreats, and it rapidly evolved toward final form.

Engagements, the interaction of AV units, their supports, and how all that boils into the final EZOC and AV EZOC rules was a long and involved affair. I'll talk about that in the Tanks! section below.

The 'Combat Flow Chart' idea is best left forgotten in the dust bin of the system's history. Suffice it to say, the road to the final form has been long.

There—literally—isn't an idea out there that wasn't tried (sometimes multiple times) to flesh out what works best.

The essentially Odds-Free combat system and the seeming lack of effect of step losses goes completely against the grain of wargame canon. I can understand how those ideas will rub players raised on odds CRTs and surrounding defenders to get some coveted ratio and a linear degradation in unit strength as losses accumulate. It strikes me that **all** those ideas are deeply rooted in an attrition-based theory of warfare (the reader should underscore that and contemplate how that affects the image of warfare games that emphasis has fed him since the very beginning). *BCS* attempts to meld maneuver and attritional warfare into their proper respective positions. Real warfare is a mix of both. I have attempted to replicate that here for you.

Let's look at those parts in turn.

First off, surrounding the defender with stacks and, essentially, attacking him from 4 or more directions at the same time is simply impossible in real life. One could argue that all those "extra" directions are merely pinning forces (much like the assist stacks here), but if that's the case, why do they add to the combat strength as much as the 'real' attackers and also why can any of them advance after combat like them? No, the design is giving the (false) impression that units at pretty much any scale form a circle around the defender and charge toward the center. This is not how things are done in real life and a fine way to generate Blue on Blue fighting.

Odds ratios are trickier. They have their place, of course, but the rub is in how they are shown. Typically, this is done on a combat-by-combat basis where the attacker (free of enemy interference) pumps the odds up as best he can against a single perfect-intel selected point while literally ignoring any other enemy units nearby (the hoary old 'soak off' attack and mandatory attack requirements were attempts at mitigating this effect). The problem was that the player was doing exactly what those systems reward: surging force ratios in a very small zone in order to obtain a maximal result from the few combats done.

That, of course, is the problem. Such massive concentrations of power are unlikely in real

life simply because the desired (best) target can't be identified properly and the resulting forces would trip all over each other in such a small zone of attack. The example one might try to use is late-war Russian offensives that applied incredible mass to small sections of line in order to achieve a breakthrough. Key there is the business of 'sections of line' as the target is geographical in nature, not some specific weak German unit. Also, 'sections of the line' being quite large in extent—huge stretches of front by the end of the war.

In *BCS*, force ratios come into play because if you out-number the enemy locally, you can afford to build more 'complete' attacks across the zone; you have more power leftover to exploit the results, and can protect your forces from any counterattack potential that exists. It's not that you do an 'extra good job' on 'A' Battalion in front of you, but you can take out 'A', its supports on either side, and thrust into its rear areas all at once.

Linear degradation of unit strength is another attritional chestnut. Obviously, attritional theory itself is based on the idea that you will destroy the enemy faster than you destroy yourself and, eventually, in a mindless pool of blood, 'win'. Losses and disruption to unit cohesion & leadership, all contribute to a unit eventually becoming combat ineffective. That's true (and true here, too), but where the problem is in the linear nature of the business typically shown. A 5-step unit that loses one step is not 20% weaker. It's 20% closer to *becoming* ineffective (or, in our imprecise terms, dead), not 20% less of the unit it was before.

The model here follows more the one I showed in the *TCS* 25 years ago (where the combat strength was determined by the crew-manned weapons and taking out the strength of the unit wouldn't diminish firepower until the bitter end) than the one in the bit later *OCS* (where losses instantly take the shine off a unit's offensive power and half losses reduce it defensively).

The *OCS* case is at a very different scale than you see here. One counter is usually an entire *BCS* Formation, so taking 1 *OCS* step loss (out of maybe 4) actually represents 25% of the units of the Formation becoming destroyed—as things go here, that rapidly

hits on the offensive power and *number* of operations the Formation can do on the attack. By the time a Formation has lost half its units (the next layer in *OCS*), I'm pretty sure you'd say they are 'defending at half strength' (if not far worse) and their offensive potential will be very limited.

In *BCS*, steps are a measure of the 'depth' of a unit—what damage it can take before becoming combat ineffective. They are not a direct increment of fighting strength.

It should be noted that the choice to use 'Arty Points' instead of the usual physical artillery units was to keep the counter density under control, to better reflect the assignment requirements of higher level artillery units (and its natural inertia), plus to avoid the 'games players play' in terms of either hunting these relatively defenseless units down or using them in ahistorical functions (like convenient road blocks).

Command

The simple framework of Command as shown in *BCS* was a relatively late addition to the design process. I added it only after spending a great deal of time hammering out the movement and combat mechanics. Its need literally grew out of what I was observing in the testing of those underlying systems.

One obvious issue was that Formations were simply able to do too much and were too agile. They'd strike out in multiple directions at a time (zeroing in on weak defenders in order to advance the attritional ball by merely killing off enemy units). Even if this did not happen, players would instantly react to events as they unfolded to the degree that if the planned advance to objective X fell apart because of a botched earlier attack, objective Y was instantly substituted as if X was never contemplated. Large scale units can't act like this—heck, *any* complicated undertaking cannot do this.

OBJ markers were the solution to that unease. Before seeing how events would unfold, the player had to make decisions on where the Formation would attempt to drive and was limited to attacking those enemy forces near those Objectives—not merely cherry-picking some weak unit that meant nothing in the bigger picture, but was simply available (according to perfect intel) to be killed.

The development of OBJs went through a series of more complex versions (usually involving route control and recon assets) to the current fairly straight-forward level. In the end, movement routing wasn't deemed all that important as the places you could go and do something major was limited and indirectly that affects how you choose to get there (other pathways being of limited use). The more important matter was the development of an honest (and reasonably inflexible) Axis of Advance representing the Formation's current plan.

Coordination came about as an outgrowth of what was a bit more complicated rule on Passage of Lines (the name change needed because Coordination covered a number of topics that weren't technically Passage of Lines). Its development played around the edges with another difference between game thinking and real life. The player approached these rules with a mindset of 'how much can I get away with before I get punished' of trying to figure out where the line was so they could exploit it as far as possible with the least application of resources or effort. To an extent, players still act that way around these (and other rules), but not to the disturbing degree they did in playtesting the old Passage rules.

Meanwhile, in real life, staffs routinely coordinate with adjacent formations an effort that moves from 'courtesy' to a 'major command function' depending on the degree of Passage of Lines involved. What they won't do is look at a map and figure out how close they can run an OP to the nearby unit and get away without bothering to let them know what was going on.

Coordination is a minor item if not allowed to get out of control. A DRM on SNAFU isn't the end of the world unless it gets stacked with other planning failures or affects a large number of units. Ramming a bunch of Formations into a small space is inviting all manner of confusion and not a little bit of Traffic problems.

The maneuver model vs. attritional model comes to a point here in the effort to smash enemy rear area installations (when you can). The benefits of clobbering a guy's lines of communication are many. You might induce logistical paralysis. This can be more efficient than simply 'attacking his units to death' in

the usual wargame slugging match. These are not necessarily easy things to accomplish (especially if the player has a taste of what they feel like when done to him!), but can give bigger benefits faster than not doing so.

Players who like their attrition can indulge themselves here, too, but mastery of what maneuver can reap at this level is the best way to win. The best mix is the most effective way to play. Enjoy the swim.

Tanks!

I am greatly indebted to **Jim Stravers** who was able to share his expertise in actual armor operations with a crusty old infantryman like me even if he did end up having to use small words and a lot of crayon wax to get me to understand.

The armor model is of a greater detail than the infantry one here as, literally, armor affects the battlefield, other armor, and infantry in ways the infantry model simply cannot show. Typically, designers **do** force the armor into the infantry model and get what you'd expect—armor that behaves like really strong and fast infantry.

Armor fights other armor using the Engagement Table (i.e., by trading fires) or they can mix it up directly (using Shock Attack). Tac MA units in general can use Shock Attacks to allow them the increased tempo their mobility creates.

How they do these jobs or if they can do them is based on one primary decision: the use of the armor in concentrated form or split up into support teams.

This takes some explaining as players frequently confuse what infantry support means. The confusion comes from thinking that being dispatched as infantry support means something like what the French did with their armor in 1940.

Strictly speaking, the French model is what happens when a player here stacks a concentrated tank unit with infantry and then pesters me wondering why he didn't get a support mod for it.

No, that's not it.

The development of effective tank-infantry teams took much of the war for the US Army. Too often the two arms would operate "near" each other, doing their own actions independently and accidently functioning as Combined Arms to a greater or (usually) lesser degree. Doing this kind of Combined Arms correctly (and obtaining maximum effect) requires the arms to work together frequently so they can both learn what the other can and cannot do and requires a means of communication between the crew in the vehicle and the infantry commander on the ground (usually a telephone in the back of the tank).

Properly mixed, the resulting tank-infantry team is many times more effective than either by itself in both offense and defense, but is still limited in rapidly moving operations (because of the infantry's limited mobility unless they come equipped with their own armored vehicles).

Importantly, training and skill level is critical to obtaining these abilities.

Concentrated armor is—of course—centralized and operating as a 'herd'. As such, it cannot function with the same close working relationship with infantry that happens to be around (if the tank-infantry team effects of support were allowed for Concentrated armor, we'd have the infantry working at armor speeds, which they cannot manage). Rather, Concentrated armor gives up some Combined Arms abilities so as to fully exploit the massive hammer they can wield. That is subject to terrain, of course.

While an AV EZOC may require armor to trade blows (or stop functioning in a hex), there are no *Overwatch* or *Opportunity Fire* rules to follow out at range. Well, none in terms of *literal* fires, the restrictions on HQ and Truck movement in Engagement Zones should not be ignored. A relatively enormous amount of time was expended on various ways to either show fires literally or have the ZOC and/or Engagement Zone rules 'cover' the topic of fires while the active player is moving. What you see here is the final distillation of those rules to the best balance of playability and simulation. More isn't better. We tried everything and many ideas more than once.

Beyond that, there is the matter of typical combat ranges being far less than the theoretical maximums available to the weapon system. In

NW Europe, this is a matter of a lot of minor terrain (hills, trees, etc.) blocking what looks like a clear LOS on the map. In the desert matters are different.

Basically, avoiding an unplayable nightmare of excessive detail and (actually) excessive losses meant that inactive player fires is not shown literally (but are what is going on in Stopping Engagements). Normally, they do their shooting in their own activations.

In addition to the major issues of being Concentrated or in Support, armor units are frequently faced with a decision on which of their two modes to use: Move-side and Deployed side. 'Move' gives the unit its best map speed, lowers its AV, and (when using the optional rule) provides the potential to create Traffic downstream on the map. 'Deployed' tanks are busy dodging and weaving, so they do not move rapidly on the map, but do have a better AV.

Of these, the latter is very important, as it shows the current thinking on 'first fires' whereby it isn't the necessarily 'best' vehicle that wins the fight as much as it is whoever gets off the first shot. That small increase to AV may not look like much, but it has a significant effect on the result of an armor Engagement.

Deployed vs. Move-sides also is a rough stand in for 'who's running along vs. who's looking for targets' as a gauge of who gets the first shot. It's not perfect by any stretch, but is better than trying to track movements done over previous activations!

In the end...

What you see here is the result of an enormous amount of testing and work on the part of many people. I'm only the tip of the iceberg. The tester list at the start of the book does not do justice to the effort given by so many that helped make this system a reality. I called out **Rod** and **Jim** earlier in these notes for the specific jobs they did... I'd be remiss if I did not do the same for others:

Carl Fung... researcher extraordinaire and the one who kept me grounded on unit/vehicle type interactions.

Lynn Brower... who put up with rewrites and edits well beyond the abilities of non-cyborg

species and did so through personal and loved ones health issues.

John Kisner... who played devil's advocate in spite of an occasionally 'cranky' designer.

Hans Kishel... who doggedly, and with good cheer, played on and on and on regardless of a patent on low dice rolls and personal health issues.

Jim Pyle... who cheerfully put up with an endless and sometimes (usually?) maddening series of changes to the playtest VASSAL module.

Tom Kassel, John Malaska, John Rainey, and Ken Schreiner... who endured months (years?) of testing and rapidly changing instructions from the Puzzle Palace GHQ.

This was the biggest and longest team effort I've been part of in all my years as a designer. It would not exist but for the selfless and generally unrewarding hard work of so very many people. I hope you enjoy the fruits of the project.

v1.1 Designer's Notes

What you see in v1.1 is the accumulation of clarifications, suggestions, clarity rewrites, added cross references, and even a longer section that kept the same rules, but presented them in a better way (such as 9.5), but beyond those, there are a few items qualifying as actual changes.

Staying in Command Radius, 4.2f. This one merely tries to restrict players for whom losing a step was not a big enough price to pay to decline to take advantage of perfect intel. The testers played the way this rule enforces before it was explicit, now you will, too.

Retreats, 7.5. Oddly, I wouldn't even list this here except some players put a lot of importance on how retreats are conducted (*As Rod said: "Really? You've been retreating units in games your whole life... just retreat it!"*) Rather than forever try to thwart the player scamming the system (but just *barely*, so it is still *technically* legal), the new Retreat process allows players to act like adults, get a better simulation in various situations, closes some loopholes, and is brutally easy to

do. This is a case of *I'm not going to dumb this down, players deserve—and can handle—the real thing.*

Attack from Off Map, 9.3f. This was the second (or third?) version of a rule keeping players from using the *edge of the world* as a force field. The earlier ones had unintended consequences allowing the 'blockee' too much freedom. The final version allows the player to get onto the map, punishes his opponent for trying to 'cork' the edge, yet keeps the player from obtaining a major maneuver benefit from the situation. *Beware the map edge, there be dragons.*

Coordination, Mixed Formations, and Blobs, 4.4 and 10.1e. These changes were to get rid of the hoary Command Radius crossing rule in v1.0 (which 'worked' as it was too big of a pain for any player to want to get anywhere near needing to use it) and go back to the way I wanted Mixing (then *Passage of Lines*) to work in the first place. Formations are assigned areas (and if it is marginal in some way, they should pay the price, **NEVER** to see how close they can get to a problem before getting on the horn to 'those other guys'), that's how it works in real life and what should be presented to the player—not scooting a unit to a specific hex so that something else can 'just barely' skate by. This was another case of 'I'm not going to dumb this down' nor reward the player willing to expend a huge amount of time on busy work. Player's have more important things to do.

Beyond these, there are some changes that seem like bigger items, but really are not (such as limiting Prepared Defense to Deployed units, rather than using UnPrepared as a decider). Such changes are designed to simplify other rules or add depth to the model.

As the testers can attest (sorry), some of these ideas are not as much changes as a need on my part to show the intended simulation model. In their defense, the testers were greatly concerned that 'Joe Wargamer' might not be able to implement the ideas or would not be able to be realistic and reasonable about application. They argued long and hard, which caused me to punt on some of the issues in v1.0. Those 'watered down' concepts worked just fine (and you can still use them if you want), but they skimmed on some of the simulation effects I wanted in the system and (I feel) long-time players deserve in their games.

Enjoy!

Engagement Table (Modified Two Dice) (7.1)

Modifiers:

Base for each side is its AV + its Action Rating
(use Supported unit for Action Rating of Support)

Firer-Only

- +1 Double OBJ Zone
- 1 Limited AV

Target-Only

- +1 Multiple Supports (Support ONLY, 7.1k)

Net Modifier = Net Firer – Net Target

Firer Loss & Traffic	Both Loss	Target Loss & Retreat
5 or less	6-8	9 or more

Firer Loss & Traffic	No Result	Target Drop*	Target Loss**
3 or less	4-5	6-10	11 or more

Support Inv'ld: 3 or less 4-5 6-10 11 or more

Ignore a side's result if that side is out of enemy range.

If the Target is in Terrain, max range is 1 hex.

* No Result if Target is not Support.

** If Firer is Stand Off Support and Target is not Support, result is Target Loss & Retreat instead.

Traffic: Traffic Stopped marker placed in Firer's hex. (5.1g)

Barrage Table

(One Die) (8.1 & 8.3)

Situation	Loss Range
Hard Unit	6
City	5-6
Terrain and/or Prepared Defense	4-6
All Other Barrage	3-6

Roll one die per unit in Target Hex. One loss on each roll in range.

Advance after Combat (7.4)

If the Defender retreats or is eliminated, the Attacker's Action Rating unit (and only that unit) **must** advance into the defender's hex. If the Assist is stacked with the AR unit, it may advance as well. Other units cannot advance.

Combat Table Modifiers

Take each side's Action Rating independently plus...
(Use AR unit if unit-specific information is needed)

Common Modifiers

DRM

- Dual or Supported +1
- MSR Blocked marked -1

Attacker-Only (Regular & Shock)

- Suppression Mission +2
- Assist +1
- Double OBJ Zone +1
- Attacking Formation has Prep Def -1
- Attack from Off Map (9.3f) +2

Shock Attack-Only (use only one)

- Breakthrough AV Unit +2
- Hard Red AV Unit +1

Defender-Only

- Prepared Defense +1
- Two Units in Defender's hex +1
- Hexside Terrain +1
- Dual or Infantry in... (use only one)
 - Terrain hex +1
 - City hex +2
- non-Support Red AV in Open Hex +2

Net Modifier = Net Attacker AR – Net Defender AR

Combat Table (Modified Two Dice) (7.2 & 7.3)

Roll	Loss?	Retreat?	Traffic?
4 or less	A2	-	-
5-6	A1	-	-
7-8	A1	D: Situational	Traffic
9-10	[A1]	D: Situational	Traffic
11-12	D1	D: Retreat	-
13+	D2	D: Retreat	-

A#: Attacker loses # steps from his AR unit.

D#: Defender loses # steps, first from his AR unit.

[A1]: A1 if defender has Prepared Defense, otherwise no loss.

Situational: If unit has Prepared Defense or is in (or behind) Key Terrain, defender must take a step loss and stay, otherwise must Retreat. (7.5g)

Traffic: Traffic Stopped marker if the defender is destroyed or retreats. (5.1g)

Retreats (7.5) Use the first listed which applies. *

Retreat result and Circumstances **Execution**
No Safe Path * AND Leg or Truck MA -1 step per unit, no Retreat

Situational Retreat...
 ...AND Key Terrain or Prepared Defense -1 step per unit, no Retreat
 ...NOT Key Terrain or Prepared Defense Retreat 3 hexes, No Flip

Automatic Retreat AND Leg or Truck MA Retreat to/adjacent to HQ & FLIP to Move-side (see **)

All other Retreats * Retreat 3 hexes & FLIP to Move-side

* For Voluntary Retreats, each unit also suffers -1 step loss; these ignore No Safe Path. (7.5j)

** If either or both of the following are true ...

- The HQ is less than 3 hexes from the Retreating stack's hex at the moment of combat, --OR--
- The Retreating unit cannot be placed w/i 1 of the HQ without overstacking. (Apply to each unit independently in the order chosen by the owning player.)

... take the unit off the map and return it to (or adjacent to) the HQ's hex in the next Reinforcements & Weather Phase.

SNAFU Table (10.1)

Two Dice	Result
2 or less	Fail
3-6	Partial
7 or more	Pass

Dice Roll Modifiers (Apply all that apply.)

Always...

- +1 if Fresh
- 1 Coordination Marker
- Fatigue Level
- 1 Mixed Formations (10.1e)
- + Game Specific SNAFU DRMs

If Combat Trains are Legal...

- +1 if Optimal Distance*
- 1 Ghost Trains
- 1 Crossing the Streams
- 1 MSR uses Tracks

If Combat Trains are not Legal and/or Off Map...

- 3 Combat Trains not in a Legal Hex
- X if Formation has a MSR Blocked marker of Level X

*At least 5 hexes, no more than 15 hexes, see 10.3c. **Automatically** applies if the Combat Trains are in an Entry hex and the HQ is not further than 15 hexes away. If this DRM does not apply, the Combat Trains must enter and stay in Ghost.

Prepared Defense ... Best SNAFU Result is PARTIAL.

Attack Sequence (7.2)

- 1) Attacker declares an Attack
- 2) Defender announces if he has a Prepared Defense and his AR unit.
- 3) Attacker identifies the Attacking and Assisting units.
- 4) Attacker's Barrage, if any.
- 5) Determine the Net Combat Table Modifier
- 6) Roll on the Combat Table

SNAFU Result Effects

Action	Pass	Partial	Fail
Objectives:			
HQ Created?	2	1	0
Recon Created?	Yes	Yes	No
Movement:			
Movement?	Yes (Truck is 1/2 MA on Mud turns)	1/2 MA	No
Voluntary Retreat?	Yes	Yes	HQ Only
Flipping from one counter side to the other?	Yes	Yes	Yes
Combat Trains?	Yes	Yes	Yes
Barrage:			
Artillery Barrage?	Yes	1/2 Arty Points *	No
Air Point Barrage?	Yes	Yes	No
Combat:			
Combat Table Attacks & Assist, Engagements, Shock Attacks, Attack by Fire?	Yes	Yes	No
Other:			
Prepared Defense?	Yes	Yes	Yes
Remove Support Dropped markers?	Yes	Yes	Yes

* Round down if needed.

Fatigue Increase Table (10.4b)

Use the most *likely to Increase* version that applies. Roll one die if a roll is required. If none of the situations apply, there is no Fatigue Increase.

Any Combat OBJ markers placed

Increase Fatigue on a roll of 1.

The Engagement Table or Attacks by Fire used

Increase Fatigue on a roll of 1-2.

The Combat Table (Regular or Shock Attack) used

(see also 7.2j)

Increase Fatigue on a roll of 1-3.

...On any other roll, there is no increase.

Unit Capabilities Chart

Unit Type	Fire Events					Fire Event				
	Regular Attack (7.2)	Engage (7.1)	Shock Attack (7.3) ONLY if Tac MA	Attack by Fire (8.3)	Assist (7.2i)	Support Attack	Support Defense	Recon (4.3d)	Spot Barrage (8.1a)	2 nd Unit in Defense
Assault Arrow	X		X		X			X	X	X
Red AV (1.2c)		X	X	X	X			X	X	X
Limited AV (1.2c)		X		X	X				X	X
Stand Off AV (1.2c)		X		X	X				X	X
Dual	X	X	X	X	X			X	X	X
Light AV (1.2c)		Target	X	X	X		X	X	X	X
Red AV Support						X	X			
Limited AV Support							X			
Stand Off Support (7.1m)		X		X			X			
Unprepared (1.2d)									X	X
HQ (9.1)									X	
Combat Train (10.3)										

Sequence of Play (2.1)

Pre-Turn Phase

- Reinforcements & Weather
- Assignment
- First player determination

Each Activation

- Initial Activation.** Flip HQ to Used.
- Preparation.** Prepared Defense determination. MSR Blockage marker handling. Apply Distance Effects for Combat Trains. Declare and execute a Fatigue Recovery Activation. Mixed Determination and Coordination marking.
- SNAFU.**
- Initial Actions.** OBJ placement.
- Activities.** Stack Activities. Movement of Combat Trains and their flipping to or from Ghost mode.
- Clean Up.** Remove all OBJ and Traffic Stopped markers. Remove the Formation's Combat Trains if still in an Illegal Hex.
- Fatigue & Isolation Effects**
- Second Activation, if any.** Roll to Activate, Rotate to Done (as needed).
- Play continues.**

Admin Phase

Orient (or flip) all HQs to Unused.

Activation Checklist

(3.1a)

All steps assume "if desired" and "if allowed"...

- Flip HQ to Used OR Reactivate DR
(remember Fresh DRM)
- Declare and Execute a Recovery Activation (10.4c)
- Remove Coordination marker
- Flip Trains to normal from Ghost
- Reduce Fatigue and remove steps for Isolation
- Remove Dropped Support markers
- Decide to Reactivate *(IF not a Failure Flip)*

OR

- Declare and Execute a Regular Activation
- Add, Remove, or Increase level of MSR Blocked (10.2b) *(If Combat Trains are off map or have returned)*
- Create, Maintain, or Remove a Prepared Defense *(PrepDef means Partial SNAFU max)*
- Determine if Mixed, apply needed Coordination markers
- Roll for SNAFU *(Failure Flip Recover if 1st Activation decision)*
- Place OBJ markers
- Conduct Movements, Combats, Barrages *(Before finishing movements recheck: Combat Trains, MSR, Command Radius)*
- Remove steps for Isolation
- Roll for Fatigue Increase
- Remove Trains if Illegal, Flip from Ghost to normal
- Decide to Reactivate *(IF 1st Activation)*

Movement in EZOCs & Engagement Zones

EZOCs (6.0)

Leg and Truck MA units must **Stop** on entering an EZOC and cannot move from EZOC to EZOC.

Tac MA units must **Stop** on entering an AV EZOC (either type), unless they eliminate the AV EZOCs. Real AV EZOCs require Stopping Engagements; Support AV EZOCs do not.

Engagement Zone Hexes

(6.1)

Truck MA units must **Stop** on entering.

HQs

HQs cannot enter EZOC or Engagement Zone hexes.

Combat Trains (10.3)

Legal Hexes

A Legal Hex must be connected by appropriate road hexes to **both** the HQ and Supply Source via hexes free of enemy units, EZOCs or their Engagement Zones (10.3a).

Movement

Simply place in a Legal Hex. If not possible, then pull the Combat Trains off map. If the Combat Trains are not in a Legal Hex when the Activation begins, they **must** move to a Legal one. Flip to Ghost if they move, if they don't move **AND** are within Optimal Distance they can flip to regular mode.

HQ & Combat Trains 'Jumping' & Retreat

HQs: Retreat to a non-RR road hex 3 hexes away without an enemy ZOC or Engagement Zone in it OR which blocks an existing enemy MSR.

Remove any Prepared Defense and **flip** the Formation's Combat Trains to Ghost. Apply a Coordination marker. (9.1f)

Combat Trains: Displace the Combat Trains 10 hexes back along the MSR toward the Supply Source they could be assumed to have been using last. Flip them to Ghost. If they are at or within 10 hexes of the Supply Source itself (the map edge), they can stop in the Map Edge hex or shift to another Entry Hex Supply Source as the player desires. (10.3d)

Isolation (10.5)

Case 1: ...with no Safe Path OR is Out of Command Radius: Destroy one step per unit.

Case 2: ...with no Safe Path AND is Out of Command Radius: Destroy two steps per unit.

Additionally, for both cases:

- **If the Formation is marked MSR Blocked Level 2:** Destroy one step per unit.
- **If ALL a Formation's units (ignoring the HQ and Trains) are subject to Case 2 above:** Remove the HQ and all its units from the game, see 9.1i.

Fatigue Increase Table (10.4b)

Use the most *likely to Increase* version that applies. Roll one die if a roll is required. If none of the situations apply, there is no Fatigue Increase.

Any Combat OBJ markers were placed

Increase Fatigue on a roll of 1. On any other roll, there is no increase.

The Engagement Table or Attack by Fires were used

Increase Fatigue on a roll of 1-2. On any other roll, there is no increase.

The Combat Table (Regular or Shock Attack) was used (see 7.2j)

Increase Fatigue on a roll of 1-3. On any other roll, there is no increase.

Safe Path (1.6)

A path of contiguous hexes from a unit to its HQ. Free of enemy units and EZOCs which affect the Movement Class involved (friendly units negate EZOCs for Safe Path). Engagement Zone hexes do not affect a Safe Path.

Safe Path can **never be longer than Command Radius + 5 hexes**. If the HQ hex checks, the Safe path must be 3 hexes long on the roads toward the Trains. In general, the Safe Path must be traversable by the unit in question's MA Type (with the special cases below):

- *Flipping to a Tac/Truck MA-type side:* Use Tac/Truck MA.
- *AV Repl Points or Support Reestablishment:* Use Tac MA.
- *Non-AV Repl Points:* Use Leg MA.