cf/x

Dynamic Mission Library for DCS

DML QUICK REFERENCE

ME MODULE INTEGRATION

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1 Artillery Zones

1.1 SummarySimulates an artillery barrage inside the zone.

1.2 Dependencies dcsCommon, cfxZones

Name	Description
artilleryTarget	Marks this zone as an artillery zone. Value is ignored MANDATORY
coalition	Used with Artillery UI – the coalition that can give a fire command (the explosions are completely coalition agnostic – they kill anyone). When the artillery zone is marked on the map, only this side will see it. Defaults to 0. Supports "red" and "blue" as values
spotRange	Used with Artillery UI – the maximum range at which an FO can give a fire command. Measured from center of zone. Defaults to 3000 meters
shellStrength	Average power of each exploding shell. Defaults to 500. 3000 is enough to level big buildings, so be conservative.
shellNum	Number of shells (salvo) per fire cycle. Defaults to 17 shells per cycle
transitionTime	The time (in seconds) the shells take on average to reach the target zone. Note that not all shells arrive at once but are usually spread over a couple of seconds. Defaults to 20
addMark	Add the artillery target zone to the F10 map of coalition (see above). Defaults to true .
shellVariance	Difference in shell's explosion power, in percent. Defaults to 0.2 (20%)
f?	The ME flag to watch to trigger a fire cycle. Whenever the value of that
artillery?	flag changes, a fire cycle is initiated. If a cooldown attribute was specified, the current cooldown status is ignored and also won't be reset. Defaults to nil (no flag watched)
cooldown	Used with Artillery UI: Number of seconds before the next fire cycle can be initiated. Is ignored when initiating fire via ME flags. Defaults to 120 (2 Minutes)
baseAccuracy	The radius (in meters) around the center of the zone in which the projectiles will land. Defaults to the ME zone's radius (meaning all projectiles will land inside the zone if this attribute is missing and fire cycle is invoked via trigger flag)
silent	Used with Artillery UI: if true, suppresses communication responses from artillery

2 Cargo Receiver

2.1 Summary

A zone designed to generate an event / signal on a flag when cargo is landed in the zone. Cargo must be registered with CargoManager

2.2 Dependencies

dcsCommon, cfxZones, cfxPlayer, cfxCargoManager.

cargoReceiver	Marks this zone as a cargo receiver zone. Value is ignored MANDATORY
autoRemove	Delete any object immediately after it was successfully delivered. This is helpful for most ObjectSpawnZones set-ups to trigger their spawn cycle
silent	Set to true to turn off this zone's directions. Defaults to false (zone will talk to pilots)
f=1	Sets the flag specified in Value to 1 when cargo is delivered (Deprecated – use method and f!)
f=0	Sets the flag specified in Value to 0 when cargo is delivered (Deprecated – use method and f!)
f+1	Increases the value of the flag specified in Value by 1 when cargo is delivered (Deprecated – use method and f!)
f-1	Decreases the value of the flag specified in Value by 1 when cargo is delivered (Deprecated – use method and f!)
method	Describes how flag! is to be set during a pulse: on – set the flag to 1 (one) off – set the flag to 0 (zero) inc – increases the flag's value by 1 (one) dec – decreases the flag's value by 1 (one) flip – set the flag's value to 1 if it's currently 0 (zero), or to 0 (zero) in every other case. Defaults to "inc"
f! cargoReceived!	The flag to bang! when the object is destroyed. Use only one synonym per zone.

3 Clone Zone

3.1 Summary

Allows you to clone any groups, at any time, anywhere.

3.2 Dependencies

dcsCommon, cfxMX, cfxZones

Name	Description
cloner	Marks this ME Zone as a clone zone. Value of this attribute is ignored, use it to describe this cloner's function. MANDATORY
source	The source for the clone template, must be the name of clone zone. When a clone cycle is initiated, the template is fetched from the source zone, and the units are then spawned around If this zone's center. If this attribute is present, this zone is not scanned for units to create a template from.
	If you supply more than one template zone names , separated by comma (e.g., "SAM 9 small, SAM 9 big"), each time a clone cycle is initiated, the clone zone picks one template by random.
	Defaults to <not a="" create="" for="" from="" present,="" scanned="" template="" to="" units="" zone=""></not>
turn	Degrees in which the clones are turned relative to the template's original poition, relative to the zone's center. Defaults to 0 (zero)
moveRoute	If this attribute's value is true, all waypoints are move the same amount as the cloned units upon spawn. Only relevant if the zone is cloning another zone's template. When not present or false, all spawned units use the template's waypoints. Defaults to false
onStart	When set to false (default), the cloner will not spawn during start. Note that if this spawn zone is used to create a template, this results in an empty zone, as all units used for the template are destroyed during template creation.
	Defaults to false (no spawn on start of mission). To spawn units at mission start, set this attribute to true.
masterOwner	If not present, all cloned units retain the exact ownership of the units that the template was created from. If present, all cloned units are owned by the faction (red/blue/grey) that owns masterOwner. Note that using masterOwner, the coalition for the units that this cloner spawns can change during the mission. Defaults to <none, ownership="" retain="" template=""></none,>

Name	Description
spawn?	Flag to watch for a change. If the value of this flag changes, a new
f?	clone cycle is initiated Defaults to <none></none>
in?	This flag has multiple synonyms. Use only one per zone.
clone?	
preWipe	If this attribute is true, any remaining units from the previous cloning cycle are removed from the game when the next clone cycle starts. Use this to 'refresh' groups like SAMs or Tanks that can run out of ammo. Default: false
empty+1	The value of this flag is increased by one when all units that were spawned during the last clone cycle are destroyed. This includes static objects. Defaults to <none> Deprecated. Use empty! instead</none>
empty!	The value of this flag is changed according to method when all units
Citipty:	from the last spawn have been destroyed, including all static objects.
	Note: use this in favor of empty+1
	Note: use either empty+1 or empty! but not both.
method	Describes how empty! is to be set during a pulse:
	on – set the flag to 1 (one)
	 off – set the flag to 0 (zero)
	 inc – increases the flag's value by 1 (one)
	 dec – decreases the flag's value by 1 (one)
	 flip – set the flag's value to 1 if it's currently 0 (zero), or to 0 (zero) in every other case. Defaults to "inc"
deSpawn?	Flag to watch for a change. If the value of this flag changes, the
	remaining units / static objects from the previous spawn are removed.
	Note that if you trigger deSpawn?, empty+1 will not trigger
	subsequently.
	Defaults to <none></none>

4 Count Down

4.1 Summary

A module that counts down flag signals (not time!) and can do various tricks with these signals.

4.2 Dependencies

dcsCommon, cfxZones

Name	Description
countDown	Marks this as a count down. The value of this attribute defines the number times until the count reaches zero This value supports ranges: if you specify a range (e.g., "3-5") each time the count down is initialized (at start, and when looping), a random number in the range (including upper and lower limit) is chosen. Defaults to 1 (one) MANDATORY
loop	If this attribute is true, a count down restarts after reaching zero. If the count down is given as a range, an new random start value is taken from that range (including upper and lower limit)
method	 Describes how flag! is to be set during a pulse: on – set the flag to 1 (one) off – set the flag to 0 (zero) inc – increases the flag's value by 1 (one) dec – decreases the flag's value by 1 (one) flip – set the flag's value to 1 if it's currently 0 (zero), or to 0 (zero) in every other case. Defaults to "flip"
count? in?	Flag to watch. A change of value on this flag constitutes a signal to count down one Note: 'count?' and 'in?' are both names for the same flag. Use either, but not both. Defaults to <none></none>
zero! out!	Output flag to bang when countdown reaches zero. Note: 'zero!' and 'out!' are both names for the same flag. Use either, but not both. Defaults to <none></none>
tMinus	Output flag to bang when the value is lowered, and has not yet reached zero. Defaults to <none></none>

5 Delay Flags (tbc)

5.1 Summary

Change a flag on the output side a while after a change was detected on the input side

5.2 Dependencies

dcsCommon, cfxZones

Name	Description
timeDelay	Marks this as a delayFlag module. The value of this attribute defines the number of seconds to wait after activation before the output flag is set. Value can be a range in which case delayFlag picks a random number inside the range (including bounds). Defaults to 1 second MANDATORY
out!	The flag to bang! after the delay has passed
method	Describes how flag! is to be set during a pulse: on – set the flag to 1 (one) off – set the flag to 0 (zero) inc – increases the flag's value by 1 (one) dec – decreases the flag's value by 1 (one) flip – set the flag's value to 1 if it's currently 0 (zero), or to 0 (zero) in every other case. Defaults to "flip"
f? in? startDelay	The flag to watch for a change that starts the delay. Use any synonym, but only one per zone.
onStart	if set to true, this delayFlag starts a delay on mission start.

6 FARP Zones

6.1 Summary

A zone linked to a FARP (and thus conquerable) that automatically provides service vehicles.

6.2 Dependencies

dcsCommon, cfxZones

Name	Description
FARP	Indicates that this zone is a FARP zone. Value is ignored.
	MANDATORY
rPhiHDef	Radius (in m), Phi (degrees) and Heading (degrees) of the center point
	around which the defenders deploy. Defaults to 0, 0, 0
rPhiHRes	Radius (in m), Phi (degrees) and Heading (degrees) of the center point
	around which the resource vehicles deploy as a line. Defaults to 0, 0, 0
redDefenders	typeStrings of defender vehicles. Example "ZSU-23-4 Shilka, ZSU-23-4
	Shilka". Defaults to "none"
	Special encoding: "none" – no vehicles
blueDefenders	typeStrings of defender vehicles. Example "Roland ADS, Roland Radar,
	Roland ADS". Defaults to "none"
	Special encoding: "none" – no vehicles
formation	Formation of the defenders group. See dcsCommon for supported
	group formations. Defaults to 'circle_out'.
rFormation	Radius of the circle that the defenders assemble in. Defaults to 100m
hidden	Set to "no" if FARP is visible on the F10 map (and colored according to
	owner). Defaults to "no"
hideRed	For any of these three attributes, the FARP is hidden if it belongs to that
hideBlue	faction. For example, if hideRed is set to true, the FARP is shown on
hideGrey	the map while it belongs to neutral or blue, but disappears when it is
	owned by red.

7 Map Markers

7.1 Summary

Allows you to place markers on the F10 map.

7.2 Dependencies

dcsCommon, cfxZones

Name	Description
mapMarker	Turns on the map marking feature. Simply must be present. Content of this property is displayed as text on the Map. Example "Destroy all vehicles in this area" MANDATORY
coalition	Side that sees this marker. Can be "red", "blue", "neutral", or "all". You can also substitute "1" for red, and "2" for blue. Defaults to "all"

8 Messenger

8.1 Summary

A module that generates a text and/or audio output.

8.2 Dependencies

dcsCommon, cfxZones

Name	Description
messenger	Attaches the messenger module to this zone. The value of this attribute
	is ignored.
	MANDATORY
f?	Watches this flag for a change. Each time the flag value changes, the
in?	message is displayed, and sound is played
messageOut?	You can use any synonym, but only one per zone
message	The text of the message to be displayed
spaceBefore	If true, an empty line is issued before the text message. Default false
spaceAfter	If true, an empty line is issued after the text message. Default is false
soundFile	Name of the sound file (including extension like '.wav') that is to be
	played.
	Defaults to ' <none>. Note that the sound file's name must be specified relative to the mission's default location for sound files</none>
	(I10n/DEFAULT/). If you use ME to import the sound files, you do not have to specify the location.
	Remember to import the sound file into the mission else no sound will play.
coalition	The coalition that the message/sound is played to. If no coalition is given, text and sound are played to all. Legal values are "red", "blue", "neutral", 0, 1, 2
	Default is <none> (play to all).</none>

9 NDB

9.1 Summary

Allows you to place an NDB in any zone. This includes linked zones so you can place NDBs that follow ships.

9.2 Dependencies

dcsCommon, cfxZones.

Name	Description
NDB	Creates an NDB at the zone's center. If the zone is linked to a unit, this NDB will automatically update to the unit's location.
	The value of this attribute is the frequency (in MHz) at which the NDB transmits (e.g. 121.5 for 121.5 MHz, 0.42 for 420 kHz)
	MANDATORY
fm	If true, the transmission is in FM, else in AM Defaults to false (AM)
ndbSound	Name of the sound file with extension that is to be transmitted. Defaults to ' <none>. Note that the sound file's name must be specified relative to the missions default location for sound files (I10n/DEFAULT/). If you use ME to import the sound files, you do not</none>
	have to specify the location. Remember to import the sound file into the mission else no sound will play.
watts	Transmission power (in watts) for the NDB. 100 Watts usually has a range of some 150 km. Defaults to 100 Watts
paused	If set to true, on mission start the NDB will not start up. Use the "on?" watch flag attribute or API to turn it on. Defaults to false
on?	Watches the flag <value number=""> for a change. Each time the flag value changes, the NDB is started (will also cause the</value>
	transmission sound to rewind). The current paused value is ignored, and then set to false after the NDB has started. Defaults to no flag to watch
off?	Watches the flag <value number=""> for a change. Each time the flag value changes, the NDB is stopped. paused value is set to true after the NDB has stopped. Defaults to no flag to watch</value>

10 Object Destruct Detector

10.1 Summary

Generates a signal (flag change) when the map object that is referenced by the zone is destroyed.

10.2 Dependencies

dcsCommon, cfxZones

10.5 ME Integration		
Name	Description	
OBJECT ID	THIS ATTRIBUTE IS FILLED BY ME AND MUST NOT BE CHANGED	
	MANDATORY	
NAME	THIS ATTRIBUTE IS FILLED BY ME AND MUST NOT BE CHANGED	
	MANDATORY	
f=1	Sets the flag specified in Value to 1 when object is destroyed	
	(deprecated – use method and f!)	
f=0	Sets the flag specified in Value to 0 when object is destroyed	
	(deprecated – use method and f!)	
f+1	Increases the value of the flag specified in Value by 1 when object is	
	destroyed (deprecated – use method and f!)	
f-1	Decreases the value of the flag specified in Value by 1 when object is	
	destroyed (deprecated – use method and f!)	
method	Describes how flag! is to be set during a pulse:	
	 on – set the flag to 1 (one) 	
	off – set the flag to 0 (zero)	
	 inc – increases the flag's value by 1 (one) 	
	 dec – decreases the flag's value by 1 (one) 	
	 flip – set the flag's value to 1 if it's currently 0 (zero), or to 0 	
	(zero) in every other case.	
	Defaults to "flip"	
f!	The flag to bang! when the object is destroyed. Use only one synonym	
destroyed	per zone.	

11 Object Spawn Zones

11.1 Summary

Allows static objects and cargo to spawn according to an attribute (type)

11.2 Dependencies

dcsCommon, cfxZones, (cfxCargoManager)

11.3 ME IIILEG	
Name	Description
objectSpawner	Marks this ME Zone as a spawn zone. Value of this attribute is
	ignored , use it to describe what it spawns to make mission editor
	easier for you
	MANDATORY
f?	An ME-compatible flag (e.g. 100) that this object spawner monitors for
spawn?	change. Whenever the value of the monitored flag changes, a new set
spawnObjects?	of objects is spawned immediately, ignoring all maxSpawn and
	cooldown rules.
pause?	Flag to observe. Each time the flag's value changes, the spawner's
	'paused' setting is forced to 'true. Used to 'pause a spawner
activate?	Flag to observe. Each time the flag's value changes, the spawner's
	'paused' setting is forced to 'false'. Used to 'activate' a paused spawne
types	Type string array for the STATIC OBJECTS that are spawned. Example
	"White_Tyre, Red_Flag". These objects may look like units (if you use
	the type string for a ground unit or aircraft), but they are static.
	WARNING : Blanks are part of the type, and blanks directly before and
	after the last character are automatically stripped.
	All static objects given here are stacked on top of each other, and count
	as one instance (the example creates a tire with a red flag in the
	middle)
	MANDATORY
count	The number of times that the combined object in types is to be
	repeated. If count equals one (or is omitted), the objects defined in
	types are assembled in the center of the zone. Otherwise, the objects
	are distributed over the zone's circumference count times.
	Defaults to one
country	The country for which the static objects are spawned. Examples: 0 =
	Russia, 1 = Ukraine, 2 = USA etc.
	Defaults to 2 (USA)
baseName	Used to create the names that uniquely identify the objects that are
	spawned to DCS. If provided, MUST BE UNIQUE for each spawner. If
	you do not provide a baseName, a unique name is generated for you.
cooldown	Number of seconds after the last spawn was removed before new
	objects are spawned. Default is 60 seconds
autoRemove	Wait for the spawned objects to be removed or destroyed, immediately
	start cooldown, then re-spawn according to rules. Default is false

Name	Description
autoLink	Only used when the spawner is linked to a unit: should the spawned objects move with the unit that the zone is linked to (usually ships, but can also be other objects). Defaults to true. Set to false if the spawner should 'drop' the objects to the ground.
heading	Orientation of the objects when they are spawned. Default is 0 (North)
weight	Used with cargo objects: the weight of this object in kg. Defaults to zero.
isCargo	Are these objects to be picked up by helicopters? Defaults to false.
managed	Used only if the objects spawned are cargo. If true, cargo objects are automatically registered with cfxCargoManager when they are spawned and cfxCargoManager is loaded). Defaults to true
maxSpawns	Number of times that the spawner spawns the objects. Defaults to 1 (one)
paused	A paused spawner will not spawn automatically (but can be forced to spawn via API or query flag f?). Set to true to pause spawning. Defaults to false.
requestable	This spawner should only spawn on request (i.e. via API or from other zones). Forces paused to true. Default value is false

12 Owned Zone

12.1 Summary

Zones that can be conquered and generate a signal when conquered

12.2 Dependencies

dcsCommon, cfxZones, (cfxGroundTroops)

Name	Description
owner	Coalition that owns the zone at beginning of Mission. Can be 0, 1, 2 or "red", "blue", "neutral". If nothing or some illegal value give, this defaults to neutral (0) MANDATORY
conq+1	Increase this flag's value by 1 (one) each time it is conquered. Defaults to <none></none>
defendersRED	A string, coma separated, that specifies the types of troops to spawn when the zone is owned by RED. Example: "Soldier M4, Soldier M4" places two Infantry soldiers. Warning: these types need to <i>exactly</i> match DCS's types. Be sure not to accidentally insert blanks. Special types: "none" – no troops Defaults to "none"
defendersBLUE	A string, coma separated, that specifies the types of troops to spawn when the zone is owned by RED. Example: "Soldier M4, Soldier M4" places two Infantry soldiers. Warning: these types need to <i>exactly</i> match DCS's types. Be sure not to accidentally insert blanks. Special types: "none" – no troops Defaults to "none"
attackersRED	A string, coma separated, that specifies the types of troops to spawn when the zone is owned by RED. Example: "Soldier M4, Soldier M4" places two Infantry soldiers. Warning: these types need to <i>exactly</i> match DCS's types. Be sure not to accidentally insert blanks. Special types: "none" – no troops Defaults to "none"
attackersBLUE	A string, coma separated, that specifies the types of troops to spawn when the zone is owned by RED. Example: "Soldier M4, Soldier M4" places two Infantry soldiers. Warning: these types need to <i>exactly</i> match DCS's types. Be sure not to accidentally insert blanks. Special types: "none" – no troops Defaults to "none"
formation	Formation of the defenders group. See dcsCommon for supported group formations. Defaults to 'circle_out'.
attackFormation	Formation of the attackers group. See dcsCommon for supported group formations. Defaults to 'circle_out'.
spawnRadius	Radius of circle that the defenders are placed on. Defaults to slightly less than zone radius, so defenders are always inside the zone they are defending. Defaults to 0.

Name	Description
attackRadius	Radius of circle in which the attackers spawn after they are produced.
	Defaults to zone radius
attackDelta	Distance from center of zone in which attackers spawn circle is located.
	Defaults to 10.
attackPhi	Angle (direction) in degrees from zone center where attackers are
	spawning. Defaults to 0.
paused	Pauses zone. "true" or "yes" means that the zone is paused. A paused
	zone produces no attackers nor defenders, but will detect capture
	normally. Capturing a paused zone will currently not unpause the zone.
	Do that in the capture callback. Defaults to "no"
unbeatable	"true" or "yes" makes it unbeatable. Zone can't be conquered by other
	side. Defaults to "no"
untargetable	"true" or "yes" makes it untargetable. Zone will not be targeted by troops
	with 'attackOwnedZones'. Defaults to "no"
hidden	"true" or "yes" hides it. Zone is not shown on F10 Map. Defaults to "no"

13 Pulse Flags

13.1 Summary

Flag "Heartbeat" – (somewhat) regularly sets/changes a flag

13.2 Dependencies

dcsCommon, cfxZones

Name	Description
pulse	Marks this as a pulser. The value of this attribute is ignored MANDATORY
flag!	The flag (number) to change on each pulse. The flag is changed according to the method attribute MANDATORY
method	Describes how flag! is to be set during a pulse: on – set the flag to 1 (one) off – set the flag to 0 (zero) inc – increases the flag's value by 1 (one) dec – decreases the flag's value by 1 (one) flip – set the flag's value to 1 if it's currently 0 (zero), or to 0 (zero) in every other case. Defaults to "flip"
done+1	This flag's value is incremented by 1 (one) when the pulser completes a fully run of pulses. Can only happen when the pulses attribute supplies a positive number. Defaults to <none></none>
activate?	When this flag's value changes, a paused pulser is reset and then restarted. Defaults to <none></none>
pause?	When this flag's value changes, a pulser is paused. Defaults to <none></none>
paused	When true, the pulser does not start at the beginning of a mission but waits for a change on activate?-flag. Defaults to false
pulses	The number of pulses to complete. If set to -1, the pulser runs until the mission ends or the pause?-flag changes
time	Seconds between pulses. You can supply a range (two numbers separated by a hyphen, e.g. "4-19"), the time between pulses is randomized after each pulse to a number in that range. Defaults to 1
zeroPulse	Usually, a pulser starts with an initial pulse ("pulse zero"). This initial pulse can be delayed by <i>time</i> by setting zeroPulse to false The effect is that the initial pulse happens after the first delay Default is true (initial pulse immediately)

14 Raise Flag

14.1 Summary

A simple, DML way to set flags to values. Supports randomization and delayed setting of flags.

14.2 Dependencies

dcsCommon, cfxZones

14.3 ME Integration

Name	Description
raiseFlag	Marks this as a flag raiser. The value of this attribute is the flag that is to
	be raised.
	MANDATORY
value	Value to set the flag to. Default is 1
afterTime	Amount of time (in seconds) after mission start to set the flag. Can be a
	range. If a range is given, the time is a random number from this range.
	If this attribute is omitted, the flag is set 0.5 seconds after mission start.
stopFlag?	Only useful in conjunction with afterTime. A flag to watch for a change.
	When the flag changes and raiseFlag is still waiting for afterTime,
	raiseFlag is 'disarmed' and will not set the flag later.

Supports DML Flags

15 rnd Flags

15.1 Summary

Can randomly set flags – from a pool of flags, in many different methods

15.2 Dependencies

dcsCommon, cfxZones

Name	Description
RND	Marks this as a randomizer. The value of this attribute is ignored MANDATORY
flags!	Set of flag numbers, as a comma (',') separated list of the flag numbers that can be chosen from. The numbers can appear in any sequence. Supports ranges like "2-7". Flag numbers can be included multiple times, including the same flag number multiple times simply increases the likelihood that this number is chosen. Examples: "2, 4, 3, 6" "99, 3-18, 2, 11-11" MANDATORY
method	Describes how flags are to be set when chosen during a cycle. rndFlags currently supports the following methods: on – set the flag to 1 (one) off – set the flag to 0 (zero) inc – increases the flag's value by 1 (one) dec – decreases the flag's value by 1 (one) flip – set the flag's value to 1 if it's currently 0 (zero), or to 0 (zero) in every other case. Defaults to "on"
pollSize	Number of items to choose from the set of flags during a cycle. Defaults to 1. Can be a range: two numbers separated by a hyphen, e.g. "2-5". When a range is given, pollSize is randomized each cycle to a number between the lower and upper bounds, inclusive.
remove	When set to true, the flags that were chosen during a cycle are removed from the set of flags. Defaults to false.
reshuffle	When set, the original full set of flags is restored when all flags have been removed
f?	The flag to watch to trigger (fire) a randomize cycle. Each time that this flag changes in value, a new randomize cycle is initiated. Defaults to <none set=""></none>
onStart	If true, a cycle is run for this randomizer 0.25 seconds after the mission starts.

Name	Description
	Defaults to false
	NOTE:
	if no f? is specified, and onStart is false, onStart is automatically set to
	true so the randomizer runs once.
done+1	The flag number to increase when the randomizer has run out of flags to change, and reshuffle is false (randomizer did nothing)
	Is increased every time that the randomizer runs a cycle on an empty
	flag set

16 Smoke Zones

16.1 Summary

Places a colored permanently refreshing smoke at the center of the zone

16.2 Dependencies

dcsCommon, cfxZones

10.5 ME IIIC	9. 4
Name	Description
smoke	Adds a permanent smoke affect to the center of the zone. Possible values for the smoke effect are:
	• "green" or "0"
	• "red" or "1"
	"white" or "2"
	"orange" or "3"
	• "blue" or "4"
	"random", "?" or "rnd" (random color from above)
	MANDATORY
paused	When true, will not start smoke at mission start, but wait for a signal on the f? flag. Defaults to false (smoke starts at mission beginning). Note that if you set paused to true and omit the f? attribute, you can only start this smoke via API
f?	Flag to watch for a change. When the value of that flag changes, pause
startSmoke?	is set to false, and smoke starts. Defaults to <none></none>
	Supports DML Flags
altitude	Altitude (in meters) above ground that the smoke should be created. Defaults to 1m

17 Spawn Zones

17.1 Summary

Allows spawning of ground units based on the types attribute (text)

17.2 Dependencies

dcsCommon, cfxZones, cfxCommander, cfxGroundTroops, (Helo Troops)

Name	Description
spawner	Marks this ME Zone as a spawn zone. Value of this attribute is
	ignored, use it to describe what it spawns to make mission editor
	easier for you
	MANDATORY
f?	Flag (ME-compatible) to observe. Each time the value of that flag
spawn?	changes, a new spawn is forced, ignoring all other settings like
spawnUnits?	maxSpawn, cooldown, paused, etc.
	Defaults to no flag to observe
	Use only one synonym per zone
pause?	Flag to observe. Each time the flag's value changes, the spawner's
	'paused' setting is forced to 'true. Used to 'pause a spawner
activate?	Flag to observe. Each time the flag's value changes, the spawner's
	'paused' setting is forced to 'false'. Used to 'activate' a paused spawne
types	Type string array for the ground units that are spawned. Example
	"Roland ADS, Roland Radar, Roland ADS" or "Soldier M4" –
	WARNING : Blanks are part of the type, and blanks before and after the
	last character are automatically stripped.
	For a full reference of objects and their types, see here
	https://github.com/mrSkortch/DCS-miscScripts/tree/master/ObjectDB
	and use whatever is given as value for the "typeName" attribute, e.g.
	"Soldier M249" for the "INF Soldier M249.lua"
country	The country (a number) the units that spawn belong to, e.g. "22" for
	Switzerland (Warning: unlike many other zone extensions, we use a
	County, not a Coalition here. The coalition is determined by which
	Faction the country belongs to as is defined when you create the
	mission, or by using the faction editor.
	Common Countries are Russia = 0, Ukraine = 1, USA = 2, UN Peace
	Keepers = 82
	You can find a reference of all country codes here:
	https://wiki.hoggitworld.com/view/DCS_enum_country).
masterOwner	A string that references another ME Zone by name. It must match that
	Zone's name exactly, and that zone must have an owner (e.g. defined
	as an cfxOwnedZone or FARPZone). A spawner only spawns
	automatically when the masterOwner's owning faction is the same as
	the spawner's country affiliation. On the map, the spawner does not
	have to be inside the masterOwner's zone, it can be hundreds of miles
	away. You can use this to start spawning reinforcements in a

Name	Description
	completely unrelated part of the map when units conquer the
	masterOwner zone.
	If no masterOwner is specified, the Spawner spawns as directed and
	disregards any surrounding zones that happen to be owned
	Optional, defaults to empty
baseName	A name (e.g. "Hill Marines") that is used to create units and groups from
bassi tamis	during unit spawning. If provided, baseName MUST BE UNIQUE. If
	you do not assign a base name, a unique one will be generated for
	you.
	If two spawners have the same baseName, one of them will not spawn,
	so if for some reason a spawner does not spawn, make it a habit to
	check this first.
cooldown	Time interval (in seconds) from when a new group can be produced
COOIGOWII	(removed from the spawner) to the moment it is produced. Defaults to
	60
autoRemove	Usually, a spawner retains ownership of a group that is produced, and
autorvernove	will re-start the spawning cycle only after it was removed. If you add the
	autoRemove attribute with a "yes" or "true" value, the Spawner will
	automatically re-start the spawning cycle (cooldown, produce) as soon
	as the new group has spawned. You can use this to automatically give
	orders and have units move out after they have spawned (similar to
	how OwnedZones spawn attackers). Be advised that you can create a
	lot of vehicles on your map in a very short time, so be careful when
	using autoRemove.
	Defaults to 'false'
heading	The direction the spawned group it oriented to, from the center of the
rieaurig	spawn zone. Defaults to 0
formation	Formation of the spawned group. See dcsCommon for supported group
TOTTIALIOTT	formations. Defaults to 'circle out'.
poucod	When paused, a spawner only spawns when other scripts tell it to (e.g.
paused	your own scripts, cfxHeloTroops, triggers).
	Defaults to "no"
orders	
orders	This is an optional interface to other troop-governing modules, e.g.
	cfxGroundTroops. Default is "guard", and spawners support in addition
	to those that cfxGroundTroops support (see → Error! Reference s
rongo	ource not found.)
range	An attribute used to pass a range value to orders (e.g. JTAC laze
4	range, detection/engage range)
target	An attribute used to pass a target zone when used in conjunction with
may Cnarries	the 'attackZone' orders
maxSpawns	The maximum number of times that this spawner spawns groups. Set it
	to a positive number (e.g. 3) to spawn that many time. Set it to a
	negative number for an unlimited number of spawns (default is -1). Set
	it to zero (0) and the spawner will never spawn.
requestable	Interfaces with other scripts, if you set this value to true, troops will only
	spawn on request via cfxSpawnZones.spawnWithSpawner(). See
	the API section on how to get a list of eligible spawners. Automatically
	interfaces with HeloTroops and other enhancements

- **18 Module Name**
- 18.1 Summary
- 18.2 Dependencies
- 18.3 ME Integration