
pydcs Documentation

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pydcs is a Python(3) framework for creating digital combat simulator missions.

Contents:

Quickstart

Creating a mission is fairly simple, the most important class in this respect is `dcs.mission.Mission`. This class contains all information for running a dcs mission. It is a .zip file that contains several lua data structures and other resources like briefing images, voice overs and other lua scripts.

```
m = dcs.Mission()  
m.save('mission.miz')
```

This code is enough to create a mission file without any unit groups in the Caucasus(default) terrain.

To add a A-10C flight group starting from Batumi airport use the following snippet:

```
fg = m.flight_group_from_airport(m.country("USA"), "A-10C Flight Group",  
                                 dcs.planes.A-10C, m.terrain.batumi(), group_size=2)  
fg.units[0].set_player()
```

This adds a A-10C flight with 2 planes starting cold from a free parking slot. In the next line it also sets the first unit of the flight as player. For more options when adding a flight see `dcs.mission.Mission.flight_group_from_airport()`.

Random mission script

pydcs delivers a small random mission creator script. This script was indented to show features of the framework and is also a little testbed.

It is invoked by the commandline with the following arguments:

```
usage: random_mission.py [-h] [-a {A-10C,Su-25T,M-2000C,Ka-50,MiG-21Bis}]
                           [-p PLAYERCOUNT] [-s {inflight,runway,warm,cold}]
                           [-t {main,CAS,CAP,refuel}]
                           [-d {random,day,night,dusk,dawn,noon}]
                           [-w {dynamic,dyncyclone,dynanti,dynnone,clear}] [-u]
                           [--show-stats] [-o OUTPUT]

Random DCS mission generator

optional arguments:
  -h, --help            show this help message and exit
  -a {A-10C,Su-25T,M-2000C,Ka-50,MiG-21Bis}, --aircrafttype {A-10C,Su-25T,M-2000C,Ka-50,MiG-21Bis}
                        Player aircraft type
  -p PLAYERCOUNT, --playercount PLAYERCOUNT
  -s {inflight,runway,warm,cold}, --start {inflight,runway,warm,cold}
  -t {main,CAS,CAP,refuel}, --missiontype {main,CAS,CAP,refuel}
  -d {random,day,night,dusk,dawn,noon}, --daytime {random,day,night,dusk,dawn,noon}
  -w {dynamic,dyncyclone,dynanti,dynnone,clear}, --weather {dynamic,dyncyclone,dynanti,dynnone,clear}
  -u, --unhide          Show enemy pre mission
  --show-stats         Show generated missions stats
  -o OUTPUT, --output OUTPUT
                        Name and path of the generated mission
```

dcs.mission module

The mission module is the entry point to all pydcs functions.

class dcs.mission.StartType

Bases: enum.Enum

Enum class for start types.

Cold = None

Coldstart from ramp.

Warm = None

Warmstart from ramp.

Runway = None

Start from runway.

static from_string(s: str)

Returns the StartType enum for a string value.

[“cold”, “warm”, “runway”]

Parameters **s** – string representation of the starttype

Returns the correct StartType.

class dcs.mission.Mission(terrain: typing.Union=None)

Bases: object

This class represents the whole dcs .miz file.

A .miz file is a zip file containing all needed files to run a mission. example.miz:

•mission

•options

•warehouses

•i10n

–DEFAULT

–dictionary

*mapResource

*[localized resource files, .wav, .jpg, ...]

Parameters **terrain** – the used terrain for this mission.

season_from_start_time = None

If set to True the mission season will be set by the value of Mission.start_time

load_file (filename: str)

Load a mission file (.miz) file, replacing all current data.

Parameters **filename** – path to the mission(.miz) file.

Returns True if everything loaded correctly

Return type bool

Raises RuntimeError – if an unknown value is encountered

sortie_text () → str

Returns the mission sortie text.

Returns the mission sortie text

set_sortie_text (text: str)

Sets the mission sortie text.

Parameters **text** – text to set.

description_text () → str

Returns the mission description text.

Returns the mission description text

set_description_text (text: str)

Sets the mission descrtiption text.

Parameters **text** – text to set.

description_bluetask_text () → str

Returns the blue task description text.

Returns the blue task description text

set_description_bluetask_text (text: str)

Sets the red coalitions task description text.

Parameters **text** – text to set.

description_redtask_text () → str

Returns the red task description text.

Returns the red task description text

set_description_redtask_text (text: str)

Sets the red coalitions task description text.

Parameters **text** – text to set.

add_picture_red (filepath: str) → str

Adds a new briefing picture to the red coalition.

Parameters **filepath** – path to the image, jpg or bmp.

Returns the resource key of the picture

add_picture_blue (filepath: str) → str

Adds a new briefing picture to the blue coalition.

Parameters **filepath** – path to the image, jpg or bmp.

Returns the resource key of the picture

next_group_id()

Get the next free group id

Returns a new group id

next_unit_id()

Get the next free unit id

Returns a new unit id

next_dict_id()

Get the next free dictionary id

Returns a new dictionary id

eplrs_for(group: str) → typing.Dict

Searches all vehicle eplrs using groups and writes them in a mapping

Parameters **group** – which group to look for eplrs task, ["helicopter", "plane", "vehicle"]

Returns a dict mapping groups to used eplrs id

next_eplrs(group_type: str) → int

Get next eplrs for the given group type.

Parameters **group_type** – one of "vehicle", "helicopter" or "plane"

Returns the next eplrs id to use

Return type int

string(s, lang='DEFAULT')

Create a new String() object for translation

Parameters

- **s** – string for lang
- **lang** – language for s

Returns A new String() object for string s

Return type String

static(name, _type: dcs.unittype.UnitType) → dcs.unit.Static

Creates a plain static object to be added to a group

Parameters

- **name** – of the static object
- **_type** (`StaticType`) – type of the static

Returns a new static object

Return type Static

static_group(country, name, _type: dcs.unittype.UnitType, position: dcs.mapping.Point, heading=0,

hidden=False, dead=False)

Add a static group with 1 static object.

Parameters

- **country** (`Country`) – the object belongs too
- **name** – name of the group
- **_type** – what kind of object

- **position** (`dcs.mapping.Point`) – where to place the object
- **heading** – of the object
- **hidden** – should the object be hidden on the map
- **dead** – should the object be rendered as dead

Returns the new static group

Return type `StaticGroup`

vehicle (`name, _type: dcs.unittype.VehicleType`) → `dcs.unit.Vehicle`

Creates a plain vehicle unit to be added to a group

Parameters

- **name** – of the vehicle
- **_type** – vehicle type

Returns a new vehicle unit.

Return type `Vehicle`

vehicle_group (`country, name, _type: dcs.unittype.VehicleType, position: dcs.mapping.Point, heading=0, group_size=1, formation=<Formation.Line: 1>, move_formation: dcs.point.PointAction=<PointAction.OffRoad: 'Off Road'>`) → `dcs.unitgroup.VehicleGroup`

Adds a new vehicle group to the given country.

Parameters `country` – which the vehicle group will belong too

Returns the new vehicle group object

Return type `VehicleGroup`

vehicle_group_platoon (`country, name, types: typing.List, position: dcs.mapping.Point, heading=0, formation=<Formation.Line: 1>, move_formation: dcs.point.PointAction=<PointAction.OffRoad: 'Off Road'>`) → `dcs.unitgroup.VehicleGroup`

Adds a new vehicle group to the given country and given vehicle types.

Parameters `country` – which the vehicle group will belong too

Returns the new vehicle group object

Return type `VehicleGroup`

ship (`name, _type: dcs.unittype.ShipType`) → `dcs.unit.Ship`

Creates a plain ship unit to be added to a group

Parameters

- **name** – of the ship
- **_type** – ship type

Returns a new ship unit.

Return type `Ship`

ship_group (`country, name, _type: dcs.unittype.ShipType, position: dcs.mapping.Point, heading=0, group_size=1`) → `dcs.unitgroup.ShipGroup`

Adds a ship group to the given country.

Parameters

- **country** (`Country`) – which the ship group will belong too
- **name** – of the ship group
- **_type** – which kind of ship to add
- **position** (`dcs.mapping.Point`) – where the new group will be placed
- **heading** – initial heading of the group, only used if no additional waypoints
- **group_size** – how many ships of `_type`

Returns the new ship group object

Return type `ShipGroup`

plane_group (`name`) → `dcs.unitgroup.PlaneGroup`

This creates a plain plane group without any units or starting points.

This method is a advanced interface method not intended for simple use. For adding full featured plane group see

- `flight_group()`
- `flight_group_inflight()`
- `flight_group_from_airport()`

Parameters **name** – Group name

Returns A new `dcs.unitgroup.PlaneGroup`

Return type `PlaneGroup`

plane (`name, _type: dcs.planes.PlaneType, country: dcs.country.Country`)

Creates a new plane unit.

This method is a advanced interface method not intended for simple usage. For adding full a featured plane group see

- `flight_group()`
- `flight_group_inflight()`
- `flight_group_from_airport()`

Parameters

- **name** – unit name
- **_type** – type of the plane
- **country** (`Country`) – the plane belongs, needed for default liveries

Returns A new `dcs.unit.Plane`

Return type `Plane`

helicopter (`name, _type: dcs.helicopters.HelicopterType, country: dcs.country.Country`)

Creates a new helicopter unit.

This method is a advanced interface method not intended for simple usage. For adding full a featured helicopter group see

- `flight_group()`
- `flight_group_inflight()`

- `flight_group_from_airport()`

Parameters

- **name** – unit name
- **_type** – type of the helicopter
- **country** (`Country`) – the helicopter belongs, needed for default liveries

Returns A new `dcs.unit.Helicopter`

Return type `Helicopter`

aircraft (`name, _type: dcs.unittype.FlyingType, country: dcs.country.Country`) → `typing.Union`

Creates a new plane or helicopter unit, depending on the `_type`.

This method is a advanced interface method not intended for simple usage. For adding full a featured plane/helicopter group see

- `flight_group()`
- `flight_group_inflight()`
- `flight_group_from_airport()`

Parameters

- **name** – unit name
- **_type** – type of the aircraft
- **country** (`Country`) – the aircraft belongs, needed for default liveries

Returns A new `dcs.unit.Plane` or `dcs.unit.Helicopter`

Return type `Helicopter`

helicopter_group (`name`) → `dcs.unitgroup.HelicopterGroup`

Creates a plain helicopter group without any units or starting points.

This method is a advanced interface method not intended for simple usage. For adding a full featured helicopter group see

- `flight_group()`
- `flight_group_inflight()`
- `flight_group_from_airport()`

Parameters `name` – Group name

Returns A new `dcs.unitgroup.HelicopterGroup`

Return type `HelicopterGroup`

flight_group_inflight (`country, name: str, aircraft_type: dcs.unittype.FlyingType, position: dcs.mapping.Point, altitude: int, speed=None, maintask: typing.Union=None, group_size: int=1`) → `typing.Union`

Add a new Plane/Helicopter group inflight.

The type of the resulting group depends on the given `aircraft_type`.

Parameters

- **country** (`Country`) – the new group will belong to

- **name** – of the new group
- **aircraft_type** (`FlyingType`) – type of all units in the group
- **position** (`dcs.mapping.Point`) – where the new group will be placed
- **altitude** – of the new group
- **speed** – of the new group, if none a default will be picked
- **maintask** (`MainTask`) – if none the default task for the aircraft_type wil be used
- **group_size** – number of units in the group(maximum 4 or 1 for certain types)

Returns a new `dcs.unitgroup.PlaneGroup` or `dcs.unitgroup.HelicopterGroup`

Return type `FlyingGroup`

```
flight_group_from_airport (country: dcs.country.Country, name, aircraft_type:  
                           dcs.unittype.FlyingType, airport: dcs.terrain.terrain.Airport,  
                           maintask: dcs.task.MainTask=None, start_type:  
                           dcs.mission.StartType=<StartType.Cold: 1>, group_size=1,  
                           parking_slots: typing.List=None) → typing.Union
```

Add a new Plane/Helicopter group at the given airport.

Runway, warm/cold start depends on the given start_type.

Parameters

- **country** (`Country`) – Country object the plane group belongs to
- **name** – Name of the aircraft group
- **maintask** (`MainTask`) – Task of the aircraft group
- **aircraft_type** (`FlyingType`) – FlyingType class that describes the aircraft_type
- **airport** (`Airport`) – Airport object on which to spawn the helicopter
- **start_type** (`StartType`) – Start from runway, cold or warm parking position
- **parking_slots** – List of parking slots to use for aircrafts
- **group_size** – number of units in the group(maximum 4 or 1 for certain types)

Returns a new `dcs.unitgroup.PlaneGroup` or `dcs.unitgroup.HelicopterGroup`

Return type `FlyingGroup`

```
flight_group_from_unit (country: dcs.country.Country, name, aircraft_type:  
                        dcs.unittype.FlyingType, carrier_unit: typing.Union,  
                        maintask: dcs.task.MainTask=None, start_type:  
                        dcs.mission.StartType=<StartType.Cold: 1>, group_size=1) →  
                        typing.Union
```

Add a new Plane/Helicopter group at the given FARP or carrier unit.

Parameters

- **country** (`Country`) – Country object the plane group belongs to
- **name** – Name of the aircraft group
- **maintask** (`MainTask`) – Task of the aircraft group
- **aircraft_type** (`FlyingType`) – FlyingType class that describes the aircraft_type
- **carrier_unit** (`Unit`) – Group(Ship, FARP) on which to spawn

- **start_type** (`StartType`) – Start from runway, cold or warm parking position, ignored for now
- **group_size** – number of units in the group(maximum 4 or 1 for certain types)

Returns a new `dcs.unitgroup.PlaneGroup` or `dcs.unitgroup.HelicopterGroup`

Return type `FlyingGroup`

flight_group (`country: dcs.country.Country, name: str, aircraft_type: dcs.unittype.FlyingType, airport: typing.Union, position: typing.Union, altitude=3000, speed=500, main_task: typing.Union=None, start_type: dcs.mission.StartType=<StartType.Runway: 3>, group_size=1`) → `dcs.unitgroup.FlyingGroup`

This is wrapper around `flight_group_inflight` and `flight_group_from_airport`.

Depending on the airport parameter a flight group will added inflight or on an airport.

Parameters

- **country** (`Country`) – Country object the plane group belongs to
- **name** – Name of the aircraft group
- **aircraft_type** (`FlyingType`) – FlyingType class that describes the aircraft_type
- **airport** (`Airport`) – Airport object on which to spawn the helicopter
- **position** (`dcs.mapping.Point`) – where the new group will be placed, if inflight
- **altitude** – initial altitude of the group if inflight
- **speed** – initial speed of the group if inflight
- **main_task** (`MainTask`) – Task of the aircraft group
- **start_type** (`StartType`) – Start from runway, cold or warm parking position
- **group_size** – number of units in the group(maximum 4 or 1 for certain types)

Returns a new `dcs.unitgroup.PlaneGroup` or `dcs.unitgroup.HelicopterGroup`

Return type `FlyingGroup`

awacs_flight (`country: dcs.country.Country, name: str, plane_type: dcs.planes.PlaneType, airport: typing.Union, position: dcs.mapping.Point, race_distance=30000, heading=90, altitude=4500, speed=550, start_type: dcs.mission.StartType=<StartType.Cold: 1>, frequency=140`) → `dcs.unitgroup.PlaneGroup`

Add an AWACS flight group.

This is simple way to add an AWACS flight group to your mission. It needs an initial orbit point, race distance and heading from this point.

If an airport is given the AWACS flight will start from there otherwise, it will placed 2 km in front of the reference position.

Parameters

- **country** (`Country`) – Country object the awacs group belongs to
- **name** – of the AWACS flight
- **plane_type** (`PlaneType`) – AWACS plane type. e.g E_3A
- **airport** (`Airport`) – starting airport, use None if you want it to spawn inflight
- **position** (`dcs.mapping.Point`) – reference point for the race-track
- **race_distance** – distance for the race-track pattern

- **heading** – direction from the referene position
- **altitude** – of the AWACS race-track
- **speed** – of the AWACS flight
- **start_type** ([StartType](#)) – of the flight if starts from airport
- **frequency** – VHF-AM frequency in mhz

Returns the created AWACS flight group

Return type [PlaneGroup](#)

refuel_flight (country, name: str, plane_type: [dcs.planes.PlaneType](#), airport: typing.Union, position: [dcs.mapping.Point](#), race_distance=30000, heading=90, altitude=4500, speed=407, start_type: [dcs.mission.StartType](#)=<StartType.Cold: 1>, frequency=140, tacanchannel='10X') → [dcs.unitgroup.PlaneGroup](#)

Add an refuel flight group.

This is simple way to add an refuel flight group to your mission. It needs an initial orbit point, race distance and heading from this point.

If an airport is given the refuel flight will start from there otherwise, it will placed 2 km in front of the reference position.

Parameters

- **country** ([Country](#)) – Country object the awacs group belongs to
- **name** – of the refuel flight
- **plane_type** ([PlaneType](#)) – refuel plane type. e.g KC_135
- **airport** ([Airport](#)) – starting airport, use None if you want it to spawn inflight
- **position** ([dcs.mapping.Point](#)) – reference point for the race-track
- **race_distance** – distance for the race-track pattern
- **heading** – direction from the referene position
- **altitude** – of the refuel race-track
- **speed** – of the refuel flight
- **start_type** ([StartType](#)) – of the flight if starts from airport
- **frequency** – VHF-AM frequency in mhz
- **tacanchannel** – if the PlaneType supports tacan this channel will be set.

Returns the created refuel flight group

Return type [PlaneGroup](#)

escort_flight (country, name: str, escort_type: [dcs.planes.PlaneType](#), airport: typing.Union, group_to_escort: [dcs.unitgroup.FlyingGroup](#), start_type: [dcs.mission.StartType](#)=<StartType.Cold: 1>, group_size=2)

Add an escort flight group to the mission.

An escort flight is a flight group that will use the [dcs.task.EscortTaskAction](#) to escort another flight group.

If no airport is given, the escort flight will spawn near the group to escort.

Parameters

- **country** ([Country](#)) – the escort flight belongs too

- **name** – of the flight group
- **escort_type** (*PlaneType*) – PlaneType for the escort task
- **airport** (*Airport*) – starting airport, use None if you want it to spawn inflight
- **group_to_escort** – id of the group to escort
- **start_type** (*StartType*) – of the flight if starts from airport
- **group_size** – how many planes should be in the escort flight

Returns the created escort group

Return type *PlaneGroup*

patrol_flight (*country*, *name*: str, *patrol_type*: *dcs.planes.PlaneType*, *airport*: typing.Union, *pos1*,
pos2, *start_type*: *dcs.mission.StartType*=<*StartType.Cold*: 1>, *speed*=600, *altitude*=4000, *max_engage_distance*=60000, *group_size*=2)

Add an patrol flight group to the mission.

A patrol flight is a flight group that will fly a orbit between 2 given points and will engage any incoming air threats within *max_engage_distance*.

If no airport is given, the patrol flight will spawn near the first patrol point(*pos1*).

Parameters

- **country** (*Country*) – the flight belongs too
- **name** – name of the patrol flight
- **patrol_type** (*PlaneType*) – PlaneType for the patrol flight
- **airport** (*Airport*) – starting airport, use None if you want it to spawn inflight
- **pos1** (*dcs.mapping.Point*) – first orbit waypoint
- **pos2** (*dcs.mapping.Point*) – second orbit waypoint
- **start_type** (*StartType*) – of the flight if starts from airport
- **speed** – orbit speed
- **altitude** – initial altitude and orbit altitude
- **max_engage_distance** – the distance in KM the patrol flight will respond to enemy threats
- **group_size** – how many planes should be in the flight group

Returns the created patrol group

Return type *PlaneGroup*

country (*name*)

Returns the country object for the mission by the given string

Parameters **name** – string representation of the country

Returns the object of the country, None if not found.

Return type *Country*

find_group (*group_name*, *search*=’exact’) → typing.Union

Searches a group with the given name.

Parameters

- **group_name** – part or exact name of the group

- **search** – search mode to use
 - ‘exact’: whole name must match
 - ‘match’: part of the name must match

Returns the group found, otherwise None

Return type *Group*

is_red(country: *dcs.country.Country*) → bool

Checks if the given country object is part o the red coalition.

Parameters **country** (*Country*) – object to check

Returns True if it is part of the red coalition, else False.

Return type bool

is_blue(country: *dcs.country.Country*) → bool

Checks if the given country object is part o the blue coalition.

Parameters **country** (*Country*) – object to check

Returns True if it is part of the blue coalition, else False.

Return type bool

stats() → typing.Dict

Gather some mission stats.

This method counts up the different group types and used units and returns them as easy to print dict.

Returns dict containing various group and unit counts.

print_stats(*d*)

Print the given mission stats to standard output.

Parameters **d** – stats dict to print, *dcs.mission.Mission.stats()*

reload()

Reloads the current loaded file

Raises `RuntimeError` – if there is currently no file loaded.

save(filename=None)

Save the current Mission object to the given file.

Parameters

- **filename** – filepath to save the Mission object
- **show_stats** (bool) – if True print mission stats to standard out.

dict()

class *dcs.mission.MapResource* (*mission: dcs.mission.Mission*)

Bases: *object*

MapResource is responsibly to manage all additional mission resource files.

Mission resource files are briefing images, lua scripts, sounds files.

Parameters **mission** (*Mission*) – the mission this MapResource belongs too, needed for dictionary ids

load_from_dict (_dict, zipf: *zipfile.ZipFile*, lang='DEFAULT')

add_resource_file (*filepath*, *lang='DEFAULT'*, *key=None*)

Adds a file to the mission resource depot.

Parameters

- **filepath** – path to the file to add
- **lang** – language this file belongs too.
- **key** – should None, needed for loading

Returns resource key to use in scripts

store (*zipf: zipfile.ZipFile*, *lang='DEFAULT'*)

class dcs.mission.**Options**

Bases: object

Should be a representation for the mission options file might be removed in the future.

load_from_dict (*d*)

dcs.task module

This module holds all Tasks that are possible to specify in dcs.

There are 2 type of tasks, a MainTask and a Task action.

- MainTasks are the flight groups main objective like `CAS`, `CAP`, `SEAD`, ...
- Task actions on the otherhand are specific tasks within a MainTask, these cover things like `AttackGroup`, `Orbit`, `Follow`, `Escort`, ...

Also options and commands are task actions.

class dcs.task.Modulation

Bases: `enum.Enum`

Enum for VHF frequency bands

AM = None

AM frequency band

FM = None

FM frequency band

class dcs.task.Task(_id)

Bases: `object`

Base class for task actions.

classmethod create_from_dict(d)

dict()

class dcs.task.ControlledTask(task: dcs.task.Task=None)

Bases: `dcs.task.Task`

A ControlledTask is a task action with start and stop conditions.

ControlledTask is a wrapper around a normal task action that has special methods to add start/stop conditions.

Parameters `task` – to wrap

Id = 'ControlledTask'

start_after_time(time: int)

Start the wrapped task after time seconds.

Parameters `time` – start after x seconds.

start_if_user_flag(user_flag, value: bool)

Start the wrapped task if user_flag has value.

Parameters

- **user_flag** – id of the userflag
- **value** – bool value of the flag

start_probability (*probability: int*)

Chance that the wrapped task will actually start.

Parameters **probability** – start chance in %

start_if_lua_predicate (*lua_predicate: str*)

Start wrapped task if lua condition is true.

Parameters **lua_predicate** – lua condition as string

stop_after_time (*time: int*)

Stop the wrapped task after time seconds.

Parameters **time** – start after x seconds.

stop_if_user_flag (*user_flag, value: bool*)

Stop the wrapped task if user_flag has value.

Parameters

- **user_flag** – id of the userflag
- **value** – bool value of the flag

stop_if_lua_predicate (*lua_predicate: str*)

Stop wrapped task if lua condition is true.

Parameters **lua_predicate** – lua condition as string

stop_after_duration (*duration: int*)

Stop task after duration seconds.

Parameters **duration** – in seconds

class dcs.task.WeaponType

Bases: enum.Enum

class dcs.task.TargetType

Bases: type

id = None

class dcs.task.Targets

Bases: object

class All

Bases: object

id = 'All'

class Air

Bases: object

id = 'Air'

class Planes

Bases: object

id = 'Planes'

```
class Fighters
    Bases: object
    id = 'Fighters'

class Targets.All.Air.Planes.Bombers
    Bases: object
    id = 'Bombers'

class Targets.All.Air.Helicopters
    Bases: object
    id = 'Helicopters'

class Targets.All.GroundUnits
    Bases: object
    id = 'Ground Units'

class Infantry
    Bases: object
    id = 'Infantry'

class Targets.All.GroundUnits.Fortifications
    Bases: object
    id = 'Fortifications'

class Targets.All.GroundUnits.GroundVehicles
    Bases: object
    id = 'Ground vehicles'

class ArmoredVehicles
    Bases: object
    id = 'Armored vehicles'

class Tanks
    Bases: object
    id = 'Tanks'

class Targets.All.GroundUnits.GroundVehicles.ArmoredVehicles.IFV
    Bases: object
    id = 'IFV'

class Targets.All.GroundUnits.GroundVehicles.ArmoredVehicles.APC
    Bases: object
    id = 'APC'

class Targets.All.GroundUnits.GroundVehicles.Artillery
    Bases: object
    id = 'Artillery'

class Targets.All.GroundUnits.GroundVehicles.UnarmedVehicles
    Bases: object
    id = 'Unarmed vehicles'

class Targets.All.GroundUnits.AirDefence
    Bases: object
```

```
    id = 'Air Defence'

    class AAA
        Bases: object

            id = 'AAA'

            class SAMRelated
                Bases: object

                    id = 'SAM related'

                    class SRSAM
                        Bases: object

                            id = 'SR SAM'

                            class Targets.All.GroundUnits.AirDefence.AAA.SAMRelated.MRSAM
                                Bases: object

                                    id = 'MR SAM'

                                    class Targets.All.GroundUnits.AirDefence.AAA.SAMRelated.LRSAM
                                        Bases: object

                                            id = 'LR SAM'

    class Targets.All.Naval
        Bases: object

            id = 'Naval'

            class Ships
                Bases: object

                    id = 'Ships'

                    class ArmedShips
                        Bases: object

                            id = 'Armed ships'

                    class HeavyArmedShips
                        Bases: object

                            id = 'Heavy armed ships'

                    class AircraftCarriers
                        Bases: object

                            id = 'Aircraft Carriers'

    class Targets.All.Naval.Ships.ArmedShips.HeavyArmedShips.Cruisers
        Bases: object

            id = 'Cruisers'

    class Targets.All.Naval.Ships.ArmedShips.HeavyArmedShips.Destroyers
        Bases: object

            id = 'Destroyers'

    class Targets.All.Naval.Ships.ArmedShips.HeavyArmedShips.Frigates
        Bases: object

            id = 'Frigates'
```

```

class Targets.All.Naval.Ships.ArmedShips.HeavyArmedShips.Corvettes
    Bases: object
        id = 'Corvettes'

class Targets.All.Naval.Ships.ArmedShips.LightArmedShips
    Bases: object
        id = 'Light armed ships'

class Targets.All.Naval.Ships.UnarmedShips
    Bases: object
        id = 'Unarmed ships'

class Targets.All.Naval.Submarines
    Bases: object
        id = 'Submarines'

class dcs.task.NoTask
    Bases: dcs.task.Task
        Id = 'NoTask'

class dcs.task.AttackGroup (group_id=0, weapon_type: dcs.task.WeaponType=<WeaponType.Auto: 1073741822>)
    Bases: dcs.task.Task
        Attack group task action
        Parameters
            • group_id – group id to attack
            • weapon_type – WeaponType to use for the attack
        Id = 'AttackGroup'

class dcs.task.AttackUnit (unit_id=0, attack_limit: typing.Union=None, weapon_type: dcs.task.WeaponType=<WeaponType.Auto: 1073741822>, group_attack=False)
    Bases: dcs.task.Task
        Attack unit task action
        Parameters
            • unit_id – unit id to attack
            • attack_limit – how much attack runs
            • weapon_type – WeaponType to use for the attack
            • group_attack – indicate if the unit must be attacked by all aircrafts in the group.
        Id = 'AttackUnit'

class dcs.task.AttackMapObject (position: dcs.mapping.Point=Point(0, 0), attack_limit: typing.Union=None, weapon_type: dcs.task.WeaponType=<WeaponType.Auto: 1073741822>, group_attack=False)
    Bases: dcs.task.Task
        Id = 'AttackMapObject'

class dcs.task.AntishipStrikeTaskAction
    Bases: dcs.task.Task
        Id = 'EngageTargets'

```

```
Key = 'AntiShip'

dict()

class dcs.task.CASTaskAction
    Bases: dcs.task.Task

    Id = 'EngageTargets'

    Key = 'CAS'

    dict()

class dcs.task.SEADTaskAction
    Bases: dcs.task.Task

    Id = 'EngageTargets'

    Key = 'SEAD'

    dict()

class dcs.task.CAPTaskAction
    Bases: dcs.task.Task

    Id = 'EngageTargets'

    Key = 'CAP'

    dict()

class dcs.task.FighterSweepTaskAction
    Bases: dcs.task.Task

    Id = 'EngageTargets'

    Key = 'FighterSweep'

    dict()

class dcs.task.EscortTaskAction(group_id=None, engagement_max_dist=60000, lastwpt=None,
                                 targets: typing.List=None, position: typing.Dict=None)
    Bases: dcs.task.Task

    Id = 'Escort'

class dcs.task.Expend
    Bases: enum.Enum

class dcs.task.Bombing(position: dcs.mapping.Point=Point(0, 0), weapon_type:
                       dcs.task.WeaponType=<WeaponType.Auto: 1073741822>, expend:
                       dcs.task.Expend=<Expend.Auto: 'Auto'>, attack_qty=1, group_attack=False,
                       direction: typing.Union=None, altitude: typing.Union=None)
    Bases: dcs.task.Task

    Id = 'Bombing'

class dcs.task.BombingRunway(airport_id: int=0, weapon_type: dcs.task.WeaponType=<WeaponType.Auto:
                             1073741822>, expend: dcs.task.Expend=<Expend.Auto: 'Auto'>,
                             attack_qty=1, group_attack=False, direction: typing.Union=None,
                             altitude: typing.Union=None)
    Bases: dcs.task.Task

    Id = 'BombingRunway'

class dcs.task.EngageTargets(max_distance=None, targets: typing.List=None)
    Bases: dcs.task.Task
```

Id = ‘EngageTargets’

class dcs.task.EngageTargetsInZone (*position: dcs.mapping.Point=Point(0, 0), radius=5000, targets: typing.List=None*)
Bases: *dcs.task.Task*

Id = ‘EngageTargetsInZone’

class dcs.task.EngageGroup (*group_id=0, visible=False*)
Bases: *dcs.task.Task*

Id = ‘EngageGroup’

class dcs.task.EngageUnit (*unit_id=0, visible=False*)
Bases: *dcs.task.Task*

Id = ‘EngageUnit’

class dcs.task.FireAtPoint (*position: dcs.mapping.Point=Point(0, 0), rounds=None, radius=0*)
Bases: *dcs.task.Task*

Id = ‘FireAtPoint’

class dcs.task.Hold
Bases: *dcs.task.Task*

Unit will hold current position

Id = ‘Hold’

class dcs.task.AWACSTaskAction
Bases: *dcs.task.Task*

Id = ‘AWACS’

class dcs.task.RefuelingTaskAction
Bases: *dcs.task.Task*

Assigns the aircraft group to refuel at the nearest tanker aircraft.

Id = ‘Refueling’

class dcs.task.Tanker
Bases: *dcs.task.Task*

Assigns the aircraft to act as an Airborne tanker.

Id = ‘Tanker’

class dcs.task.OrbitAction (*altitude=4000, speed=600, pattern: dcs.task.OrbitPattern=<OrbitPattern.RaceTrack: ‘Race-Track’>*)
Bases: *dcs.task.Task*

Id = ‘Orbit’

class OrbitPattern
Bases: *enum.Enum*

class dcs.task.Follow (*groupid=None, position: dcs.mapping.Point=Point(-200, 0), altitude_difference=-200, last_wpt=None*)
Bases: *dcs.task.Task*

Id = ‘Follow’

class dcs.task.Aerobatics
Bases: *dcs.task.Task*

Id = ‘Aerobatics’

```
class dcs.task.Designation
    Bases: enum.Enum

class dcs.task.FAC(callsign: int=1, designation: dcs.task.Designation=<Designation.Auto: 'Auto'>, frequency: int=30, modulation: dcs.task.Modulation=<Modulation.FM: 1>, number: int=1)
    Bases: dcs.task.Task
    Id = 'FAC'

class dcs.task.FACEEngageGroup(group_id: int=0, visible=False, weapon_type: dcs.task.WeaponType=<WeaponType.Auto: 1073741822>, priority: int=0, callsign: int=1, designation: dcs.task.Designation=<Designation.Auto: 'Auto'>, frequency: int=30, modulation: dcs.task.Modulation=<Modulation.FM: 1>, datalink=True, number: int=1)
    Bases: dcs.task.Task
    Id = 'FAC_EngageGroup'

class dcs.task.Land(position: dcs.mapping.Point=Point(0, 0), duration: int=None)
    Bases: dcs.task.Task
    Helicopter landing task.

    If added to a helicopter group, the group will land at the given coordinates for the given duration.

    Parameters
        • position – dcs.mapping.Point where to land
        • duration – how long the helicopter should stay on ground in seconds.
    Id = 'Land'

class dcs.task.Embarking(position: dcs.mapping.Point=Point(0, 0), groupids: typing.List=None, distribution: typing.Dict=None, duration: int=None)
    Bases: dcs.task.Task
    Pickup task for helicopters.

    Helicopter group will land at the given coordinates and will pickup the given groups.

    Parameters
        • position – dcs.mapping.Point where to land and pickup
        • groupids – list of groups to pickup
        • distribution – dictionary with heli unit to groups to pickup mapping {heliunit: [grp1, grp2], ...}
        • duration – how long the helicopter should stay on ground and wait in seconds.
    Id = 'Embarking'

class dcs.task.EmbarkToTransport(position: dcs.mapping.Point=Point(0, 0), zone_radius=200, concrete_unitid=None)
    Bases: dcs.task.Task
    Task for ground units that will get picked up by a helicopter

    Parameters
        • position – dcs.mapping.Point where to wait to get picked up.
        • zone_radius – radius around the point where the group will embark.
        • concrete_unitid – if specified the group will embark to exactly this unit.
    Id = 'EmbarkToTransport'
```

```

class dcs.task.DisembarkFromTransport (position:           dcs.mapping.Point=Point(0,      0),
                                         zone_radius=200)
    Bases: dcs.task.Task

    Task for ground units that will disembark a transport helicopter

    Parameters
        • position – dcs.mapping.Point where the group will disembark
        • zone_radius – radius around the point where the group will disembark.

Id = ‘DisembarkFromTransport’
```

```

class dcs.task.CargoTransportation (groupid=None, zoneid=None)
    Bases: dcs.task.Task

    Task for Cargo transportation.

    Parameters
        • groupid – cargo group id
        • zoneid – zone id to transport to??
Id = ‘CargoTransportation’
```

```

class dcs.task.WrappedAction
    Bases: dcs.task.Task

Id = ‘WrappedAction’
```

```

class dcs.task.EPLRS (group_id=1)
    Bases: dcs.task.WrappedAction

Key = ‘EPLRS’

eplrs
```

```

class dcs.task.ActivateBeaconCommand (channel=10, modechannel=‘X’, callsign=‘TKR’, bearing=True)
    Bases: dcs.task.WrappedAction

Key = ‘ActivateBeacon’

static calc_tacan_frequency (mode_channel, channel, aa=True)
```

```

class dcs.task.RunScript (script: str=‘’)
    Bases: dcs.task.WrappedAction

    Runs a given script string
    Parameters script – to be executed
Key = ‘Script’
```

```

class dcs.task.RunScriptFile (resourcekey: str=‘’)
    Bases: dcs.task.WrappedAction

    Runs a script attached to the mission
    Parameters resourcekey – resource key to the script file, see
                dcs.mission.MapResource
Key = ‘ScriptFile’
```

```

class dcs.task.TransmitMessage (soundfile_reskey: typing.Union=None, subtitle_resstring: typing.Union=None, loop=False, subtitle_duration=5)
    Bases: dcs.task.WrappedAction

    Transmits a given sound file over the current radio channel.

    Parameters
```

- **soundfile_reskey** – resource key to the sound file to transmit, see `dcs.mission.MapResource`
- **subtitle_resstring** – string resource key to subtitle displayed, see `dcs.mission.Mission.translation`
- **loop** – True or False if the sound file should be looped.
- **subtitle_duration** – how long the subtitle should be displayed in seconds.

Key = ‘TransmitMessage’

class dcs.task.StopTransmission
Bases: `dcs.task.WrappedAction`

Stops any `dcs.task.TransmitMessage` task currently ongoing.

Key = ‘StopTransmission’

class dcs.task.SetFrequencyCommand (`frequency=133,` *modulation:*
`dcs.task.Modulation=<Modulation.AM: 0>`)
Bases: `dcs.task.WrappedAction`

Set the groups radio frequency.

Parameters

- **frequency** – frequency band in mhz.
- **modulation** – AM or FM, see `dcs.task.Modulation`

Key = ‘SetFrequency’

class dcs.task.SwitchWaypoint (`from_waypoint=1, to_waypoint=2`)
Bases: `dcs.task.WrappedAction`

Switch to a different waypoint.

Parameters

- **from_waypoint** – from which waypoint to switch.??
- **to_waypoint** – new current waypoint

Key = ‘SwitchWaypoint’

class dcs.task.SetInvisibleCommand (`value=True`)
Bases: `dcs.task.WrappedAction`

Key = ‘SetInvisible’

class dcs.task.SetImmortalCommand (`value=True`)
Bases: `dcs.task.WrappedAction`

Key = ‘SetImmortal’

class dcs.task.MainTask
Bases: `object`

name = None

sub_tasks = []

perform_task = []

map = {‘SEAD’: <class ‘dcs.task.SEAD’>, ‘AFAC’: <class ‘dcs.task.AFAC’>, ‘Nothing’: <class ‘dcs.task.Nothing’>, ‘Refu

class dcs.task.Nothing
Bases: `dcs.task.MainTask`

id = 15

```

name = 'Nothing'

sub_tasks = [<class 'dcs.task.OrbitAction'>, <class 'dcs.task.Follow'>, <class 'dcs.task.Aerobatics'>]

class dcs.task.AFAC
    Bases: dcs.task.MainTask

    id = 16

    name = 'AFAC'

    sub_tasks = [<class 'dcs.task.OrbitAction'>, <class 'dcs.task.Follow'>, <class 'dcs.task.AttackGroup'>, <class 'dcs.task.

class dcs.task.AWACS
    Bases: dcs.task.MainTask

    id = 14

    name = 'AWACS'

    sub_tasks = [<class 'dcs.task.OrbitAction'>, <class 'dcs.task.Follow'>, <class 'dcs.task.RefuelingTaskAction'>]

    perform_task = [<class 'dcs.task.AWACSTaskAction'>]

class dcs.task.AntishipStrike
    Bases: dcs.task.MainTask

    id = 30

    name = 'Antiship Strike'

    sub_tasks = [<class 'dcs.task.OrbitAction'>, <class 'dcs.task.Follow'>, <class 'dcs.task.AttackGroup'>, <class 'dcs.task.

    perform_task = [<class 'dcs.task.AntishipStrikeTaskAction'>]

class dcs.task.CAS
    Bases: dcs.task.MainTask

    id = 31

    name = 'CAS'

    sub_tasks = [<class 'dcs.task.OrbitAction'>, <class 'dcs.task.Follow'>, <class 'dcs.task.AttackGroup'>, <class 'dcs.task.

    perform_task = [<class 'dcs.task.CASTaskAction'>]

class EnrouteTasks
    Bases: object

        class EngageGroup (group_id=0, visible=False)
            Bases: dcs.task.Task

            Id = 'EngageGroup'

        class CAS.EnrouteTasks.EngageTargetsInZone (position:
            dcs.mapping.Point=Point(0,
            0), radius=5000, targets: typ-
            ing.List=None)
            Bases: dcs.task.Task

            Id = 'EngageTargetsInZone'

        class CAS.EnrouteTasks.EngageUnit (unit_id=0, visible=False)
            Bases: dcs.task.Task

            Id = 'EngageUnit'

```

```
class dcs.task.CAP
    Bases: dcs.task.MainTask

    id = 11
    name = 'CAP'
    sub_tasks = [<class 'dcs.task.OrbitAction'>, <class 'dcs.task.Follow'>, <class 'dcs.task.Aerobatics'>]
    perform_task = [<class 'dcs.task.CAPTaskAction'>]

class EnrouteTasks
    Bases: object

        class EngageTargets (max_distance=None, targets: typing.List=None)
            Bases: dcs.task.Task

            Id = 'EngageTargets'

            class CAP.EnrouteTasks.EngageTargetsInZone (position:
                dcs.mapping.Point=Point(0,
                0), radius=5000, targets: typing.List=None)
                Bases: dcs.task.Task

                Id = 'EngageTargetsInZone'

            class CAP.EnrouteTasks.EngageGroup (group_id=0, visible=False)
                Bases: dcs.task.Task

                Id = 'EngageGroup'

            class CAP.EnrouteTasks.EngageUnit (unit_id=0, visible=False)
                Bases: dcs.task.Task

                Id = 'EngageUnit'

class dcs.task.Escort
    Bases: dcs.task.MainTask

    id = 18
    name = 'Escort'
    sub_tasks = [<class 'dcs.task.OrbitAction'>, <class 'dcs.task.Follow'>, <class 'dcs.task.EscortTaskAction'>]
    perform_task = [<class 'dcs.task.EscortTaskAction'>]

class dcs.task.FighterSweep
    Bases: dcs.task.MainTask

    id = 19
    name = 'Fighter Sweep'
    sub_tasks = [<class 'dcs.task.OrbitAction'>, <class 'dcs.task.Follow'>, <class 'dcs.task.Aerobatics'>]
    perform_task = [<class 'dcs.task.FighterSweepTaskAction'>]

class dcs.task.GroundAttack
    Bases: dcs.task.MainTask

    id = 32
    name = 'Ground Attack'
    sub_tasks = [<class 'dcs.task.OrbitAction'>, <class 'dcs.task.Follow'>, <class 'dcs.task.Bombing'>, <class 'dcs.task.Att
```

```
class dcs.task.Intercept
    Bases: dcs.task.MainTask

    id = 10
    name = 'Intercept'
    sub_tasks = [class 'dcs.task.OrbitAction', class 'dcs.task.Follow', class 'dcs.task.AttackGroup', class 'dcs.task.Bombing']

class dcs.task.PinpointStrike
    Bases: dcs.task.MainTask

    id = 33
    name = 'Pinpoint Strike'
    sub_tasks = [class 'dcs.task.OrbitAction', class 'dcs.task.Follow', class 'dcs.task.Bombing', class 'dcs.task.AttackGroup']

class dcs.task.Reconnaissance
    Bases: dcs.task.MainTask

    id = 17
    name = 'Reconnaissance'
    sub_tasks = [class 'dcs.task.OrbitAction', class 'dcs.task.Follow', class 'dcs.task.Aerobatics']
    perform_task = []

class dcs.task.Refueling
    Bases: dcs.task.MainTask

    id = 13
    name = 'Refueling'
    sub_tasks = [class 'dcs.task.OrbitAction', class 'dcs.task.Follow']
    perform_task = [class 'dcs.task.Tanker']

class dcs.task.RunwayAttack
    Bases: dcs.task.MainTask

    id = 34
    name = 'Ground Attack'
    sub_tasks = [class 'dcs.task.OrbitAction', class 'dcs.task.Follow', class 'dcs.task.Bombing', class 'dcs.task.AttackGroup']
    perform_task = []

class dcs.task.SEAD
    Bases: dcs.task.MainTask

    id = 29
    name = 'SEAD'
    sub_tasks = [class 'dcs.task.OrbitAction', class 'dcs.task.Follow', class 'dcs.task.AttackGroup', class 'dcs.task.Bombing']
    perform_task = [class 'dcs.task.SEADTaskAction']

class dcs.task.Transport
    Bases: dcs.task.MainTask

    id = 35
    name = 'Transport'
```

```
sub_tasks = [<class 'dcs.task.OrbitAction'>, <class 'dcs.task.Follow'>, <class 'dcs.task.Aerobatics'>]
perform_task = []

class dcs.task.Option (value=None)
    Bases: dcs.task.Task

    Id = 'WrappedAction'

    Key = None

class dcs.task.OptROE (value=0)
    Bases: dcs.task.Option

Sets the groups rules of engagement. Ultimately defines whether or not the AI group is allowed to attack. This option can override all other tasking. With the 1.5 patch two of the values have different names in the mission editor. However the behavior is still exactly the same as before, its just labeled slightly different. The scripting engine still uses the previous values.

    Key = 0

    class Values
        Bases: object

        WeaponFree = 0
            AI will engage any enemy group it detects. Target prioritization is based based on the threat of the target.

        OpenFireWeaponFree = 1
            AI will engage any enemy group it detects, but will prioritize targets specified in the groups tasking.

        OpenFire = 2
            AI will engage only targets specified in its taskings.

        ReturnFire = 3
            AI will only engage threats that shoot first.

        WeaponHold = 4
            AI will hold fire under all circumstances.

class dcs.task.OptReactOnThreat (value=0)
    Bases: dcs.task.Option

Defines the allowable action for an airborne group to take in response to a threat. This option can have an effect on other tasking.

    Key = 1

    class Values
        Bases: object

        NoReaction = 0
            No defensive actions will take place to counter threats

        PassiveDefense = 1
            AI will use jammers and other countermeasures in an attempt to defeat the threat. AI will not attempt a maneuver to defeat a threat.

        EvadeFire = 2
            AI will react by performing defensive maneuvers against incoming threats, AI will also use passive defense.
```

ByPassAndEscape = 3

AI will attempt to avoid enemy threat zones all together. This includes attempting to fly above or around threats.

AllowAbortMission = 4

If a threat is deemed severe enough the AI will abort its mission and return to base.

class `dcs.task.OptDisperseUnderFire (value=None)`

Bases: `dcs.task.Option`

Key = 8

dcs

5.1 dcs package

5.1.1 Subpackages

dcs.lua package

Submodules

dcs.lua.parse module

`dcs.lua.parse.loads (tablestr)`

dcs.lua.serialize module

`dcs.lua.serialize.dumps (value, varname=None, indent=None)`

Module contents

dcs.terrain package

Submodules

dcs.terrain.caucasus module

```
class dcs.terrain.caucasus.Anapa
    Bases: dcs.terrain.terrain.Airport
    id = 12
    name = 'Anapa'
    position = Point(-5406.2803440839, 243127.2973737)
    tacan = None
    frequencies = [121000000, 38400000, 250000000, 3750000]
    unit_zones = []
```

```
civilian = True

class dcs.terrain.caucasus.KrasnodarCenter
    Bases: dcs.terrain.terrain.Airport

    id = 13
    name = 'Krasnodar-Center'
    position = Point(11692.789495652, 367948.47230953)
    tacan = None
    frequencies = [122000000, 38600000, 251000000, 3800000]
    unit_zones = []
    civilian = True

class dcs.terrain.caucasus.Novorossiysk
    Bases: dcs.terrain.terrain.Airport

    id = 14
    name = 'Novorossiysk'
    position = Point(-40915.496728899, 279256.64920952)
    tacan = None
    frequencies = [123000000, 38800000, 252000000, 3850000]
    unit_zones = []
    civilian = True

class dcs.terrain.caucasus.Krymsk
    Bases: dcs.terrain.terrain.Airport

    id = 15
    name = 'Krymsk'
    position = Point(-6583.663574989, 294383.98405512)
    tacan = None
    frequencies = [124000000, 39000000, 253000000, 3900000]
    unit_zones = []
    civilian = True

class dcs.terrain.caucasus.Maykop
    Bases: dcs.terrain.terrain.Airport

    id = 16
    name = 'Maykop'
    position = Point(-26441.347360305, 458040.61422532)
    tacan = None
    frequencies = [125000000, 39200000, 254000000, 3950000]
    unit_zones = []
    civilian = True
```

```
class dcs.terrain.caucasus.Gelendzhik
    Bases: dcs.terrain.terrain.Airport

        id = 17
        name = 'Gelendzhik'
        position = Point(-50392.648146355, 298387.43849386)
        tacan = None
        frequencies = [126000000, 39400000, 255000000, 4000000]
        unit_zones = []
        civilian = True

class dcs.terrain.caucasus.Sochi
    Bases: dcs.terrain.terrain.Airport

        id = 18
        name = 'Sochi'
        position = Point(-164474.73482633, 462236.21834688)
        tacan = None
        frequencies = [127000000, 39600000, 256000000, 4050000]
        unit_zones = []
        civilian = True

class dcs.terrain.caucasus.KrasnodarPashkovsky
    Bases: dcs.terrain.terrain.Airport

        id = 19
        name = 'Krasnodar-Pashkovsky'
        position = Point(7674.038444859, 385029.5736699)
        tacan = None
        frequencies = [128000000, 39800000, 257000000, 4100000]
        unit_zones = []
        civilian = True

class dcs.terrain.caucasus.Sukhumi
    Bases: dcs.terrain.terrain.Airport

        id = 20
        name = 'Sukhumi'
        position = Point(-220531.73642658, 564387.05872916)
        tacan = None
        frequencies = [129000000, 40000000, 258000000, 4150000]
        unit_zones = []
        civilian = True

class dcs.terrain.caucasus.Gudauta
    Bases: dcs.terrain.terrain.Airport
```

```
    id = 21
    name = 'Gudauta'
    position = Point(-196974.19851241, 516290.23098695)
    tacan = None
    frequencies = [130000000, 40200000, 259000000, 4200000]
    unit_zones = []
    civilian = True

class dcs.terrain.caucasus.Batumi
    Bases: dcs.terrain.terrain.Airport

    id = 22
    name = 'Batumi'
    position = Point(-355692.3067714, 617269.96285781)
    tacan = '16X'
    frequencies = [131000000, 40400000, 260000000, 4250000]
    unit_zones = []
    civilian = True

class dcs.terrain.caucasus.Senaki
    Bases: dcs.terrain.terrain.Airport

    id = 23
    name = 'Senaki'
    position = Point(-281713.83114196, 647369.87369832)
    tacan = '31X'
    frequencies = [132000000, 40600000, 261000000, 4300000]
    unit_zones = []
    civilian = True

class dcs.terrain.caucasus.Kobuleti
    Bases: dcs.terrain.terrain.Airport

    id = 24
    name = 'Kobuleti'
    position = Point(-317948.32727306, 635639.37385346)
    tacan = '67X'
    frequencies = [133000000, 40800000, 262000000, 4350000]
    unit_zones = []
    civilian = True

class dcs.terrain.caucasus.Kutaisi
    Bases: dcs.terrain.terrain.Airport

    id = 25
```

```
name = 'Kutaisi'
position = Point(-284889.06283057, 683853.75717885)
tacan = None
frequencies = [134000000, 41000000, 263000000, 4400000]
unit_zones = []
civilian = True

class dcs.terrain.caucasus.Mineralnye
    Bases: dcs.terrain.terrain.Airport
    id = 26
    name = 'Mineralnye'
    position = Point(-51251.551717591, 705718.47981263)
    tacan = None
    frequencies = [135000000, 41200000, 264000000, 4450000]
    unit_zones = []
    civilian = True

class dcs.terrain.caucasus.Nalchik
    Bases: dcs.terrain.terrain.Airport
    id = 27
    name = 'Nalchik'
    position = Point(-124921.90954665, 760428.0733062)
    tacan = None
    frequencies = [136000000, 41400000, 265000000, 4500000]
    unit_zones = []
    civilian = True

class dcs.terrain.caucasus.Mozdok
    Bases: dcs.terrain.terrain.Airport
    id = 28
    name = 'Mozdok'
    position = Point(-83454.571428571, 834453.14285714)
    tacan = None
    frequencies = [137000000, 41600000, 266000000, 4550000]
    unit_zones = []
    civilian = False

class dcs.terrain.caucasus.Lochini
    Bases: dcs.terrain.terrain.Airport
    id = 29
    name = 'Lochini'
```

```
position = Point(-315478.57142857, 896538.85714286)
tacan = None
frequencies = [138000000, 41800000, 267000000, 4600000]
unit_zones = []
civilian = True

class dcs.terrain.caucasus.Soganlug
    Bases: dcs.terrain.terrain.Airport
    id = 30
    name = 'Soganlug'
    position = Point(-317838.57142857, 895424.57142858)
    tacan = None
    frequencies = [139000000, 42000000, 268000000, 4650000]
    unit_zones = []
    civilian = True

class dcs.terrain.caucasus.Vaziani
    Bases: dcs.terrain.terrain.Airport
    id = 31
    name = 'Vaziani'
    position = Point(-319069.063, 903150.625)
    tacan = None
    frequencies = [140000000, 42200000, 269000000, 4700000]
    unit_zones = []
    civilian = False

class dcs.terrain.caucasus.Beslan
    Bases: dcs.terrain.terrain.Airport
    id = 32
    name = 'Beslan'
    position = Point(-148810.84954665, 843756.7533062)
    tacan = None
    frequencies = [141000000, 42400000, 270000000, 4750000]
    unit_zones = []
    civilian = True

class dcs.terrain.caucasus.Caucasus
    Bases: dcs.terrain.terrain.Terrain
    center = {'lat': 45.12945, 'long': 34.26527}
    bounds = Rectangle(380000, -560000, -600000, 1130000)
    map_view_default = <dcs.terrain.terrain.MapView object>
```

```
soganlug() → dcs.terrain.terrain.Airport
senaki() → dcs.terrain.terrain.Airport
sochi() → dcs.terrain.terrain.Airport
batumi() → dcs.terrain.terrain.Airport
nalchik() → dcs.terrain.terrain.Airport
beslan() → dcs.terrain.terrain.Airport
mozdok() → dcs.terrain.terrain.Airport
anapa() → dcs.terrain.terrain.Airport
krasnodar_center() → dcs.terrain.terrain.Airport
krasnodar_pashkovsky() → dcs.terrain.terrain.Airport
novorossiysk() → dcs.terrain.terrain.Airport
krymsk() → dcs.terrain.terrain.Airport
maykop() → dcs.terrain.terrain.Airport
gelendzhik() → dcs.terrain.terrain.Airport
mineralnye() → dcs.terrain.terrain.Airport
gudauta() → dcs.terrain.terrain.Airport
vaziani() → dcs.terrain.terrain.Airport
lochini() → dcs.terrain.terrain.Airport
kobuleti() → dcs.terrain.terrain.Airport
kutaisi() → dcs.terrain.terrain.Airport
sukhumi() → dcs.terrain.terrain.Airport
default_red_airports() → typing.List
default_blue_airports() → typing.List
```

dcs.terrain.nevada module

```
class dcs.terrain.nevada.Creech
    Bases: dcs.terrain.terrain.Airport
    id = 1
    name = 'Creech'
    position = Point(-359732, -74970.9)
    tacan = None
    frequencies = [122000000, 38600000, 251000000]
    unit_zones = []
    civilian = False
    slot_version = 2
```

```
class dcs.terrain.nevada.Groom
    Bases: dcs.terrain.terrain.Airport

    id = 2
    name = 'Groom'
    position = Point(-288694, -87414.2)
    tacan = None
    frequencies = [123000000, 38800000, 252000000]
    unit_zones = []
    civilian = False
    slot_version = 2

class dcs.terrain.nevada.McCarran
    Bases: dcs.terrain.terrain.Airport

    id = 3
    name = 'McCarraan'
    position = Point(-416083, -27121.1)
    tacan = None
    frequencies = [124000000, 39000000, 253000000]
    unit_zones = []
    civilian = False
    slot_version = 2

class dcs.terrain.nevada.Nellis
    Bases: dcs.terrain.terrain.Airport

    id = 4
    name = 'Nellis'
    position = Point(-397971, -17639.5)
    tacan = None
    frequencies = [125000000, 39200000, 254000000]
    unit_zones = []
    civilian = False
    slot_version = 2

class dcs.terrain.nevada.Nevada
    Bases: dcs.terrain.terrain.Terrain

    center = {'lat': 39.81806, 'long': -114.73333}
    bounds = Rectangle(-497177.65625, -329334.875, -166934.953125, 209836.890625)
    map_view_default = <dcs.terrain.terrain.MapView object>
    creech() → dcs.terrain.terrain.Airport
    groom() → dcs.terrain.terrain.Airport
```

```
mccarran() → dcs.terrain.terrain.Airport  
nellis() → dcs.terrain.terrain.Airport
```

dcs.terrain.terrain module

```
class dcs.terrain.terrain.ParkingSlot(crossroad_idx, position: dcs.mapping.Point, large=False,  
                                      slot_name=None,      heli=False,      airplanes=True,  
                                      length=None,        width=None,       height=None,     shel-  
                                      ter=False)  
Bases: object  
class dcs.terrain.terrain.Runway(heading, ils=None, leftright=0)  
Bases: object  
class dcs.terrain.terrain.Airport  
Bases: object  
id = None  
name = None  
position = None  
tacan = None  
frequencies = []  
unit_zones = []  
civilian = True  
slot_version = 1  
load_from_dict(d)  
set_blue()  
set_red()  
set_neutral()  
set_coalition(side)  
is_red()  
is_blue()  
random_unit_zone() → dcs.mapping.Rectangle  
free_parking_slots(aircraft_type: dcs.unittype.FlyingType) → typing.List  
free_parking_slot(aircraft_type: dcs.unittype.FlyingType) → typing.Union  
dict()  
class dcs.terrain.terrain.MapView(center: dcs.mapping.Point, zoom=1000000)  
Bases: object  
load_from_dict(d)  
dict()  
class dcs.terrain.terrain.Terrain(name: str)  
Bases: object  
bounds = None
```

```
map_view_default = None
airport_by_id(id: int) → dcs.terrain.terrain.Airport
airport_list() → typing.List

class dcs.terrain.terrain.Warehouses(terrain: dcs.terrain.terrain.Terrain)
    Bases: object

    load_dict(data)
```

Module contents

5.1.2 Submodules

5.1.3 dcs.country module

```
dcs.country.find_exact(group_name, find_name)
dcs.country.find_match(group_name, find_name)
class dcs.country.Country(_id, name)
    Bases: object

    callsign = {}
    planes = []
    helicopters = []
    add_vehicle_group(vgroup)
    add_ship_group(sgroup)
    add_plane_group(pgroup)
    add_helicopter_group(hgroup)
    add_aircraft_group(group: dcs.unitgroup.FlyingGroup)
    add_static_group(sgroup)
    find_group(group_name, search='exact')
    find_vehicle_group(name: str, search='exact')
    find_ship_group(name: str, search='exact')
    find_plane_group(name: str, search='exact')
    find_helicopter_group(name: str, search='exact')
    find_static_group(name: str, search='exact')
    next_callsign_id()
    next_callsign_category(category)
    dict()
```

5.1.4 dcs.forcedoptions module

```
class dcs.forcedoptions.ForcedOptions
    Bases: object

class Views
    Bases: enum.Enum

class ForcedOptions.CivilTraffic
    Bases: enum.Enum

class ForcedOptions.GEffect
    Bases: enum.Enum

ForcedOptions.load_from_dict(d)
ForcedOptions.dict()
```

5.1.5 dcs.goals module

```
class dcs.goals.GoalRule(predicate)
    Bases: object

    dict()

class dcs.goals.AllOfCoalitionInZone(coalitionlist, zone)
    Bases: dcs.goals.GoalRule

    predicate = 'c_all_of_coalition_in_zone'
    classmethod create_from_dict(d)
    dict()

class dcs.goals.AllOfCoalitionOutsideZone(coalitionlist, zone)
    Bases: dcs.goals.GoalRule

    predicate = 'c_all_of_coalition_out_zone'
    classmethod create_from_dict(d)
    dict()

class dcs.goals.AllOfGroupInZone(group, zone)
    Bases: dcs.goals.GoalRule

    predicate = 'c_all_of_group_in_zone'
    classmethod create_from_dict(d)
    dict()

class dcs.goals.AllOfGroupOutsideZone(group, zone)
    Bases: dcs.goals.GoalRule

    predicate = 'c_all_of_group_out_zone'
    classmethod create_from_dict(d)
    dict()

class dcs.goals.ArgumentInRange(argument, _min, _max)
    Bases: dcs.goals.GoalRule

    predicate = 'c_argument_in_range'
```

```
classmethod create_from_dict (d)
    dict ()

class dcs.goals.BombInZone (typebomb, numbombs, zone)
    Bases: dcs.goals.GoalRule
    predicate = 'c_bomb_in_zone'

    classmethod create_from_dict (d)
        dict ()

class dcs.goals.CargoUnhookedInZone (cargo, zone)
    Bases: dcs.goals.GoalRule
    predicate = 'c_cargo_unhooked_in_zone'

    classmethod create_from_dict (d)
        dict ()

class dcs.goals.CoalitionHasAirdrome (coalitionlist, airdromelist)
    Bases: dcs.goals.GoalRule
    predicate = 'c_coalition_has_airdrome'

    classmethod create_from_dict (d)
        dict ()

class dcs.goals.CoalitionHasHelipad (coalitionlist, helipadlist)
    Bases: dcs.goals.GoalRule
    predicate = 'c_coalition_has_helipad'

    classmethod create_from_dict (d)
        dict ()

class dcs.goals.CockpitHighlightVisible (highlight_id)
    Bases: dcs.goals.GoalRule
    predicate = 'c_cockpit_highlight_visible'

    classmethod create_from_dict (d)
        dict ()

class dcs.goals.CockpitParamEqual (cockpit_param, value_text)
    Bases: dcs.goals.GoalRule
    predicate = 'c_cockpit_param_equal_to'

    classmethod create_from_dict (d)
        dict ()

class dcs.goals.CockpitParamEqualToAnother (cockpit_param, cockpit_param2)
    Bases: dcs.goals.GoalRule
    predicate = 'c_cockpit_param_is_equal_to_another'

    classmethod create_from_dict (d)
        dict ()

class dcs.goals.CockpitParamInRange (cockpit_param, _min2, _max2)
    Bases: dcs.goals.GoalRule
```

```
predicate = 'c_cockpit_param_in_range'
classmethod create_from_dict(d)

dict()

class dcs.goals.FlagEquals(flag=1, value=10)
Bases: dcs.goals.GoalRule

predicate = 'c_flag_equals'
classmethod create_from_dict(d)

dict()

class dcs.goals.FlagEqualsFlag(flag=1, flag2=1)
Bases: dcs.goals.GoalRule

predicate = 'c_flag_equals_flag'
classmethod create_from_dict(d)

dict()

class dcs.goals.FlagIsFalse(flag=1)
Bases: dcs.goals.GoalRule

predicate = 'c_flag_is_false'
classmethod create_from_dict(d)

dict()

class dcs.goals.FlagIsLess(flag=1, value=10)
Bases: dcs.goals.GoalRule

predicate = 'c_flag_less'
classmethod create_from_dict(d)

dict()

class dcs.goals.FlagIsLessThanFlag(flag=1, flag2=1)
Bases: dcs.goals.GoalRule

predicate = 'c_flag_less_flag'
classmethod create_from_dict(d)

dict()

class dcs.goals.FlagIsMore(flag=1, value=10)
Bases: dcs.goals.GoalRule

predicate = 'c_flag_more'
classmethod create_from_dict(d)

dict()

class dcs.goals.FlagIsTrue(flag=1)
Bases: dcs.goals.GoalRule

predicate = 'c_flag_is_true'
classmethod create_from_dict(d)

dict()
```

```
class dcs.goals.GroupAlive(group)
    Bases: dcs.goals.GoalRule

    predicate = 'c_group_alive'

    classmethod create_from_dict(d)

    dict()

class dcs.goals.GroupDead(group)
    Bases: dcs.goals.GoalRule

    predicate = 'c_group_dead'

    classmethod create_from_dict(d)

    dict()

class dcs.goals.GroupLifeLess(group, percent=10)
    Bases: dcs.goals.GoalRule

    predicate = 'c_group_life_less'

    classmethod create_from_dict(d)

    dict()

class dcs.goals.IndicationTextEqual(indicator_id, element_name, element_value)
    Bases: dcs.goals.GoalRule

    predicate = 'c_indication_txt_equal_to'

    classmethod create_from_dict(d)

    dict()

class dcs.goals.MissionScoreHigher(coalitionlist, score=50)
    Bases: dcs.goals.GoalRule

    predicate = 'c_mission_score_higher'

    classmethod create_from_dict(d)

    dict()

class dcs.goals.MissionScoreLower(coalitionlist, score=50)
    Bases: dcs.goals.GoalRule

    predicate = 'c_mission_score_lower'

    classmethod create_from_dict(d)

    dict()

class dcs.goals.Or
    Bases: dcs.goals.GoalRule

    predicate = 'or'

    classmethod create_from_dict(d)

    dict()

class dcs.goals.PartOfCoalitionInZone(coalitionlist, zone)
    Bases: dcs.goals.GoalRule

    predicate = 'c_part_of_coalition_in_zone'

    classmethod create_from_dict(d)
```

```
dict()

class dcs.goals.PartOfCoalitionOutsideZone (coalitionlist, zone)
    Bases: dcs.goals.GoalRule

    predicate = 'c_part_of_coalition_out_zone'

    classmethod create_from_dict (d)

    dict()

class dcs.goals.PartOfGroupInZone (group, zone)
    Bases: dcs.goals.GoalRule

    predicate = 'c_part_of_group_in_zone'

    classmethod create_from_dict (d)

    dict()

class dcs.goals.PartOfGroupOutsideZone (group, zone)
    Bases: dcs.goals.GoalRule

    predicate = 'c_part_of_group_out_zone'

    classmethod create_from_dict (d)

    dict()

class dcs.goals.PlayerScoreLess (scores=100)
    Bases: dcs.goals.GoalRule

    predicate = 'c_player_score_less'

    classmethod create_from_dict (d)

    dict()

class dcs.goals.PlayerScoreMore (scores=100)
    Bases: dcs.goals.GoalRule

    predicate = 'c_player_score_more'

    classmethod create_from_dict (d)

    dict()

class dcs.goals.Predicate (text)
    Bases: dcs.goals.GoalRule

    predicate = 'c_predicate'

    classmethod create_from_dict (d)

    dict()

class dcs.goals.Random (percent=10)
    Bases: dcs.goals.GoalRule

    predicate = 'c_random_less'

    classmethod create_from_dict (d)

    dict()

class dcs.goals.SignalFlareInZone (flare_color, numflares, zone)
    Bases: dcs.goals.GoalRule

    predicate = 'c_signal_flare_in_zone'
```

```
classmethod create_from_dict(d)
dict()

class dcs.goals.TimeAfter(seconds=10)
Bases: dcs.goals.GoalRule
predicate = 'c_time_after'

classmethod create_from_dict(d)
dict()

class dcs.goals.TimeBefore(seconds=10)
Bases: dcs.goals.GoalRule
predicate = 'c_time_before'

classmethod create_from_dict(d)
dict()

class dcs.goals.TimeSinceFlag(flag=1, seconds=10)
Bases: dcs.goals.GoalRule
predicate = 'c_time_since_flag'

classmethod create_from_dict(d)
dict()

class dcs.goals.UnitAlive(unit)
Bases: dcs.goals.GoalRule
predicate = 'c_unit_alive'

classmethod create_from_dict(d)
dict()

class dcs.goals.UnitAltitudeHigher(unit, altitude=1)
Bases: dcs.goals.GoalRule
predicate = 'c_unit_altitude_higher'

classmethod create_from_dict(d)
dict()

class dcs.goals.UnitAltitudeLower(unit, altitude=1)
Bases: dcs.goals.GoalRule
predicate = 'c_unit_altitude_lower'

classmethod create_from_dict(d)
dict()

class dcs.goals.UnitBankWithin(unit, min_unit_bank=-180, max_unit_bank=180)
Bases: dcs.goals.GoalRule
predicate = 'c_unit_bank'

classmethod create_from_dict(d)
dict()

class dcs.goals.UnitDamaged(unit)
Bases: dcs.goals.GoalRule
```

```
predicate = 'c_unit_damaged'
classmethod create_from_dict(d)
dict()

class dcs.goals.UnitDead(unit)
Bases: dcs.goals.GoalRule
predicate = 'c_unit_dead'
classmethod create_from_dict(d)
dict()

class dcs.goals.UnitHeadingWithin(unit, min_unit_heading, max_unit_heading=360)
Bases: dcs.goals.GoalRule
predicate = 'c_unit_heading'
classmethod create_from_dict(d)
dict()

class dcs.goals.UnitInMovingZone(unit, zone, zoneunit)
Bases: dcs.goals.GoalRule
predicate = 'c_unit_in_zone_unit'
classmethod create_from_dict(d)
dict()

class dcs.goals.UnitInZone(unit, zone)
Bases: dcs.goals.GoalRule
predicate = 'c_unit_in_zone'
classmethod create_from_dict(d)
dict()

class dcs.goals.UnitLifeLess(unit, percent=10)
Bases: dcs.goals.GoalRule
predicate = 'c_unit_life_less'
classmethod create_from_dict(d)
dict()

class dcs.goals.UnitOutsideMovingZone(unit, zone, zoneunit)
Bases: dcs.goals.GoalRule
predicate = 'c_unit_out_zone_unit'
classmethod create_from_dict(d)
dict()

class dcs.goals.UnitOutsideZone(unit, zone)
Bases: dcs.goals.GoalRule
predicate = 'c_unit_out_zone'
classmethod create_from_dict(d)
dict()
```

```
class dcs.goals.UnitPitchWithin(unit, min_unit_pitch=-180, max_unit_pitch=180)
    Bases: dcs.goals.GoalRule
        predicate = 'c_unit_pitch'
        classmethod create_from_dict(d)
            dict()

class dcs.goals.UnitSpeedHigher(unit, speed=100)
    Bases: dcs.goals.GoalRule
        predicate = 'c_unit_speed_higher'
        classmethod create_from_dict(d)
            dict()

class dcs.goals.UnitSpeedLower(unit, speed=100)
    Bases: dcs.goals.GoalRule
        predicate = 'c_unit_speed_lower'
        classmethod create_from_dict(d)
            dict()

class dcs.goals.UnitVerticalSpeedWithin(unit, min_unit_vertical_speed=-300,
                                         max_unit_vertical_speed=300)
    Bases: dcs.goals.GoalRule
        predicate = 'c_unit_vertical_speed'
        classmethod create_from_dict(d)
            dict()

class dcs.goals.Goal(comment='', score=100)
    Bases: object
        goalrule_map = {'c_unit_heading': <class 'dcs.goals.UnitHeadingWithin'>, 'c_coalition_has_helipad': <class 'dcs.goals.CoalitionHasHelipad'>}
        load_from_dict(data)
        conditions()
        dict()

class dcs.goals.Goals
    Bases: object
        load_from_dict(data)
        add_red(g: dcs.goals.Goal)
        add_blue(g: dcs.goals.Goal)
        add_offline(g: dcs.goals.Goal)
        generate_result()
        dict()
```

5.1.6 dcs.groundcontrol module

```
class dcs.groundcontrol.GroundControl
    Bases: object

    load_from_dict(d)
    dict()
```

5.1.7 dcs.mapping module

dcs.mapping.**point_from_heading**(*_x*, *_y*, *heading*, *distance*)

Calculates a point from a given point, heading and distance.

Parameters

- **_x** – source point x
- **_y** – source point y
- **heading** – heading in degrees from source point
- **distance** – distance from source point

Returns returns a tuple (x, y) of the calculated point

dcs.mapping.**distance**(*x1*, *y1*, *x2*, *y2*)

Returns the distance between 2 points

Parameters

- **x1** – x coordinate of point 1
- **y1** – y coordinate of point 1
- **x2** – x coordinate of point 2
- **y2** – y coordinate of point 2

Returns distance in point units(m)

dcs.mapping.**heading_between_points**(*x1*, *y1*, *x2*, *y2*)

Returns the angle between 2 points in degrees.

Parameters

- **x1** – x coordinate of point 1
- **y1** – y coordinate of point 1
- **x2** – x coordinate of point 2
- **y2** – y coordinate of point 2

Returns angle in degrees

class dcs.mapping.**Point**(*x*, *y*)

Bases: object

point_from_heading(*heading*, *distance*)

heading_between_point(*point*)

distance_to_point(*point*)

class dcs.mapping.**Triangle**(*points: typing.Union*)

Bases: object

```
area()
random_point() → dcs.mapping.Point

class dcs.mapping.Rectangle(top, left, bottom, right)
    Bases: object

    static from_point(point: dcs.mapping.Point, side_length)
    point_in_rect(point: dcs.mapping.Point)
    height()
    width()
    center() → dcs.mapping.Point
    resize(percentage: float)
    random_point() → dcs.mapping.Point
    random_distant_points(distance) → typing.Tuple

class dcs.mapping.Polygon(points: typing.List=None)
    Bases: object

    point_in_poly(point: dcs.mapping.Point)
        Checks if the given point is within the polygon.

        Parameters point – Point to test
        Returns True if point is within the polygon else False

    random_point() → dcs.mapping.Point
        Returns a random point within this polygon object

        Returns a random point

    static is_convex(a: dcs.mapping.Point, b: dcs.mapping.Point, c: dcs.mapping.Point)
    static in_triangle(a, b, c, p)
    is_clockwise()
    static get_ear(poly)
    triangulate()
    outbound_rectangle() → dcs.mapping.Rectangle
```

5.1.8 dcs.point module

```
class dcs.point.PointAction
    Bases: enum.Enum

class dcs.point.StaticPoint
    Bases: object

    load_from_dict(d, translation)
    dict()

class dcs.point.VNav
    Bases: enum.Enum

class dcs.point.Scale
    Bases: enum.Enum
```

```

class dcs.point.Steer
    Bases: enum.Enum

class dcs.point.PointProperties (vnav:           dcs.point.VNav=<VNav.V2D:      0>,      scale:
                                         dcs.point.Scale=<Scale.Enroute:          0>,      steer:
                                         dcs.point.Steer=<Steer.ToTo: 2>, angle=None)
    Bases: object

load_from_dict (d)

dict ()

class dcs.point.MovingPoint
    Bases: dcs.point.StaticPoint

load_from_dict (d, translation)

find_task (task_type)
    Searches tasks in this point for the given task class

    Parameters task_type – task class to search, dcs.task

    Returns task instance if found, else None

dict ()

```

5.1.9 dcs.templates module

```

class dcs.templates.VehicleTemplate
    Bases: object

class Russia
    Bases: object

    static sa10_site (mission: dcs.mission.Mission, position: dcs.mapping.Point, heading, pre-
                       fix=''', skill=<Skill.Average: 'Average'>)

class VehicleTemplate.USA
    Bases: object

    static patriot_site (mission:     dcs.mission.Mission,   position,   heading,   prefix='',
                           skill=<Skill.Average: 'Average'>)

    static hawk_site (mission:       dcs.mission.Mission,   position,   heading,   prefix='',
                      skill=<Skill.Average: 'Average'>)

```

5.1.10 dcs.translation module

```

class dcs.translation.String (_id=''', translation=None)
    Bases: object

    set (text, lang='DEFAULT')

    str (lang='DEFAULT')

class dcs.translation.Translation (_mission)
    Bases: object

    set_string (_id, string, lang='DEFAULT')

    get_string (_id)

    create_string (s, lang='DEFAULT')

```

```
delete_string(_id)
languages() → [<class 'str'>]
dict(lang='DEFAULT')
```

5.1.11 dcs.unit module

```
class dcs.unit.Skill
    Bases: enum.Enum

class dcs.unit.Unit(_id, name=None, type='')
    Bases: object

    load_from_dict(d)
    clone(_id)
    dict()

class dcs.unit.FlyingUnit(_id=None, name=None, _type: dcs.unittype.FlyingType=None, _coun-
try=None)
    Bases: dcs.unit.Unit

    load_from_dict(d)
    set_parking(parking_slot: dcs.terrain.terrain.ParkingSlot)
    load_pylon(weapon, pylon=None)
    store_loadout(filename)
    load_loadout(filename)
    reset_loadout()
    set_default_preset_channel(freq)
    set_radio_preset()
    set_player()
    set_client()
    dict()

class dcs.unit.Plane(_id=None, name=None, _type: dcs.planes.PlaneType=<class
                     'dcs.planes.A_10C'>, _country=None)
    Bases: dcs.unit.FlyingUnit

class dcs.unit.Helicopter(_id=None, name=None, _type: dcs.helicopters.HelicopterType=<class
                         'dcs.helicopters.Ka_50'>, _country=None)
    Bases: dcs.unit.FlyingUnit

    load_from_dict(d)
    dict()

class dcs.unit.Vehicle(id=None, name=None, _type='Sandbox')
    Bases: dcs.unit.Unit

    load_from_dict(d)
    dict()

class dcs.unit.Ship(id=None, name=None, _type=None)
    Bases: dcs.unit.Unit
```

```

load_from_dict(d)
dict()

class dcs.unit.Static(_unit_id=None, name=None, _type: dcs.unittype.UnitType=None)
    Bases: dcs.unit.Unit

    load_from_dict(d)
    dict()

```

5.1.12 dcs.unitgroup module

```

class dcs.unitgroup.Group(_id: int, name=None)
    Bases: object

    class Formation
        Bases: enum.Enum

        Group.load_from_dict(d)
        Group.add_unit(unit: dcs.unit.Unit)
        Group.add_point(point: dcs.point.StaticPoint)
        Group.x
        Group.y
        Group.position
        Group.formation_line(heading, distance=20)
        Group.formation_star(heading, distance=20)
        Group.formation_rectangle(heading, distance=20)
        Group.formation_scattered(heading=0, max_radius=None)
        Group.formation(_type=<Formation.Line: 1>, heading=0)
        Group.set_skill(skill: dcs.unit.Skill)
        Group.dict()

class dcs.unitgroup.MovingGroup(_id, name=None, start_time=0)
    Bases: dcs.unitgroup.Group

    load_from_dict(d)
    dict()

class dcs.unitgroup.VehicleGroup(_id, name=None, start_time=0)
    Bases: dcs.unitgroup.MovingGroup

    load_from_dict(d)
    add_span(position: dcs.mapping.Point)
    add_waypoint(position: dcs.mapping.Point, move_formation: dcs.point.PointAction=<PointAction.OffRoad: 'Off Road'>, speed=32) → dcs.point.MovingPoint
    dict()

class dcs.unitgroup.FlyingGroup(_id, name=None, start_time=0)
    Bases: dcs.unitgroup.MovingGroup

```

```
starts_from_airport() → bool  
load_from_dict(d)  
add_waypoint(pos: dcs.mapping.Point, altitude, speed=600, name: dcs.translation.String=None)  
    → dcs.point.MovingPoint  
add_runway_waypoint(airport: dcs.terrain.terrain.Airport, runway:  
    dcs.terrain.terrain.Runway=None, distance=6400) →  
    dcs.point.MovingPoint  
    Adds a waypoint parallel to the given runway heading, for start or approach.
```

Parameters

- **airport** – start airport object
- **runway** – runway for heading direction, if None first(default) airport runway will be used.
- **distance** – distance of the waypoint from the airport

Returns MovePoint object describing the waypoint

```
land_at(airport: dcs.terrain.terrain.Airport) → dcs.point.MovingPoint
```

```
load_task_default_loadout(task)
```

```
load_loadout(name)
```

```
load_pylon(weapon, pylon=None)
```

```
load_loadout_from_file(filename)
```

```
set_client()
```

```
reset_loadout()
```

```
set_frequency(frequency)
```

```
dict()
```

```
class dcs.unitgroup.PlaneGroup(_id, name=None, start_time=0)
```

Bases: *dcs.unitgroup.FlyingGroup*

```
add_unit(unit: dcs.unit.Plane)
```

```
class dcs.unitgroup.HelicopterGroup(_id, name=None, start_time=0)
```

Bases: *dcs.unitgroup.FlyingGroup*

```
add_unit(unit: dcs.unit.Helicopter)
```

```
class dcs.unitgroup.ShipGroup(_id, name=None, start_time=0)
```

Bases: *dcs.unitgroup.MovingGroup*

```
add_waypoint(position: dcs.mapping.Point, speed=20) → dcs.point.MovingPoint
```

```
dict()
```

```
class dcs.unitgroup.StaticGroup(_id, name=None)
```

Bases: *dcs.unitgroup.Group*

```
load_from_dict(d)
```

```
dict()
```

5.1.13 dcs.unittype module

```
class dcs.unittype.UnitType
    Bases: object

    id = None
    name = None

class dcs.unittype.VehicleType
    Bases: dcs.unittype.UnitType

    epirs = False

class dcs.unittype.ShipType
    Bases: dcs.unittype.UnitType

    helicopter_num = 0
    plane_num = 0
    parking = 0

class dcs.unittype.StaticType
    Bases: dcs.unittype.UnitType

    shape_name = None
    rate = 0
    category = 'Fortifications'
    sea_object = False
    can_cargo = False
    mass = None

class dcs.unittype.FlyingType
    Bases: dcs.unittype.UnitType

    flyable = False
    group_size_max = 4
    large_parking_slot = False
    helicopter = False
    fuel_max = 0
    max_speed = 500
    height = 0
    width = 0
    length = 0
    ammo_type = None
    chaff = 0
    flare = 0
    charge_total = 0
    chaff_charge_size = 1
```

```
flare_charge_size = 2
category = 'Air'
tacan = False
eplrs = False
radio_frequency = 251
panel_radio = None
pylons = {}
payloads = None
payload_dirs = ['C:\\Program Files\\Eagle Dynamics\\DCS World\\MissionEditor\\data\\scripts\\UnitPayloads', 'C:\\P
tasks = ['Nothing']
task_default = None
classmethod scan_payload_dir()
classmethod load_payloads()
classmethod loadout(_task)
classmethod loadout_by_name(loadout_name)
classmethod default_livery(country_name) → str
```

5.1.14 dcs.weather module

```
class dcs.weather.Wind(direction=0, speed=0)
    Bases: object
    dict()

class dcs.weather.Cyclone
    Bases: object
    dict()

class dcs.weather.Weather(terrain)
    Bases: object

class Season
    Bases: object
    Summer = 1
    Winter = 2
    Spring = 3
    Fall = 4

class Weather.BaricSystem
    Bases: enum.Enum
    Weather.load_from_dict(d)
    Weather.set_season_from_datetime(dt: datetime.datetime)
    Weather.dynamic_weather(system: dcs.weather.BaricSystem, cyclones: int=1)
    Weather.dict()
```

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