ELROB 2016

20 - 24 June 2016
Eggendorf, Austria

REAL TASKS, IN A REAL WORLD SCENARIO

Movements – Convoying

Military transport tasks can be roughly divided into two broad areas, those for dismounted soldiers and those for vehicles, e.g. trucks as a part of convoys.

Movements of personnel, material, humanitarian aid etc. are routine tasks on missions. In hostile environment these movements are dangerous, because convoys always attract attacks like roadside IEDs etc.

Environment:

Non-urban, wooded, hilly terrain with roads and paths ranging from small streets (covered, e.g., with asphalt, loose chippings or concrete) to simple dirt roads; bushes and trees, grass, sand, water, stones; ditches and trenches.

Situation:

There is a delivery for a camp within approx. 3 km. A group of at least two vehicles has to be moved to this camp.

There will be dynamic objects and static obstacles in the area. Dead ends, sharp turns, road blockings and narrow passages might occur. Barricades, barriers or any kind of blockades can be expected. Beware of negative obstacles.

Objective:

Move at least two vehicles of min. 50kg each to the target location as fast as possible and with highest autonomy possible. Only the operator is allowed to control the vehicles. There is only one control station allowed, either vehicle-mounted or stationary outside the vehicles.

The team will receive a section of a digital map with UTM co-ordinates that specify the waypoints which have to be traversed in the given order; see example in the rules. The vehicles cannot just drive straight lines between the waypoints but have to identify and navigate along roads and paths.

Deliver the driven path as UTM coordinate list and plot it into the digital map (see rules for format description). If possible, transmit live position and video imagery to the control station.

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Additionally, search for Objects of Potential Interest (OPI), i.e. particular markers with special characteristics as defined in the rules. Whenever an OPI is found, acquire imagery and mark its position inside the digital map.

Report all gathered data to the control station, online or offline after having returned to the starting point.

Remarks:

-   Be prepared to deliver additional data in ROS bag format; exact specification and data types will follow.

Timing:

Duration approx. 45 min. The scenario ends when arriving at the target location or with reaching the time limit, whatever occurs first, and must include the transmission of the acquired data.

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