Connectivity meeting #3
UAS Coordination Technical Working Group

13 Jan. 2021

Tour de table

Organization	Contact
GlobalMedic	Daniel Cyr
Outsight	Denise Soesilo
WFP	Dubem Umeasiegbu
ICRC	Fabrice Lauper
Emergency.lu	Gilles Hoffmann
Globalmedic	Jowett Wong
Independent	Faine Greenwood
Elistair	Guilhem
Ericsson Response	Lars Peder Svensson XX
Ericsson Response	Lars Ruediger
UNHCR	Min Sun
WFP	Omar Namaoui
UNICEF	Zuheb Siddiqui
WFP	JeanClaudeAtassa Laouwayi
Spooky Action	Rahul Tiwari
Elistair	Steve Allcock
WFP	Patrick McKay
WFP	Matthias Boyen
WFP	Masa Sabbah

Opening remarks by Patrick welcoming everyone to third session of the Connectivity group

Two presentations were carried out by Elistair and Spooky Action Robotics, starting with

Elistair: *Please find the presentation PowerPoint* here.

Steve -business developer at Elistair, working on operation in Middle East. Africa and UK.

- Elistair is a French company, based in Lyon, had over 700 tethered drones delivered to 65+ countries and are recognized to be the leading tethered drones' company across the globe.
- Elistair provides two solutions: Orion tethered drones that is completely made in-house specifically for tethering and for flying for a long period of time; it's powered and controlled through the tether. More details:

Performance	Sensors	Communications	Command & Control
Up to 24 hours continuous	EO: 1080p 30ips	MANET Radios	Secure C2 through the tether
Up to 100m AGL	IR: 640x480 35mm Lens	4G/LTE	Up to 200mb/s data transfer
Dual Payload capacity 2kg	Selectable recording	Wi-Fi	2.4Ghz emergency transmitter
IP54 Protection		Misc.	Data is secured by the user
-10°C to +45°C operating temp			

ELISTAIR

- Second, they offer a tethered station, there is over 50 drones' manufacturers that Elistair works with currently; this solution which allows the user who already has a drone, to connect it to the tethered station and have longer flying time. More details:

Ligh-T V4		Safe-T V2
70m Tether	Length	100/125m Tether
Electric Winch	Winch	Smart Electric Winch
>1200w Max Cont. Power	Power	>2200w Max Cont. Power
IP43	IP rating	IP54
20kg	Weight	26kg
	Compatible with 50+ Drones	

- To learn more about the use cases please follow the recording that you can find here (minute 17:40- 21:50)

Spooky Action Robotics *presented after:* *Please find the presentation PowerPoint* *[here](#).*

Presenting is Rahul Tiwari, CEO of Spooky Action:

- Spooky Action is a robotics company in Minnesota focused on developing tethered drones in the communication market.
- The solution that Spooky Action concentrates on is the Telelift:

- To learn about the use cases please follow the recording that you can find [here](#) (minute 31:30-)

Discussion (dividing different roles for members based on the ToRs):

The following are things that the Connectivity group will need to work on at some point:

- To document best practices for the:
    o use of tethered UAS based Wi-Fi connectivity;
    o use of tethered UAS based Mobile connectivity;
    o use of un-tethered UAS for connectivity.
- To develop field guides (checklists) on how to:
    o request approval for the establishment of a tethered drone location
    o provide backhaul connectivity to a UAS;
    o set up a tethered drone operations site;
    o maintain safe operations of a tethered drone;

As operations are limited now due to Covid, this will be put on hold until there is more operations in the field.

The plenary meeting will be on the 20th of January, every chair will present the ToR of their group and the purpose of each group. There will also be a presentation of the soon to be launched drones website (it is opened to all groups members)

The next Connectivity TWG meeting Loon will be presenting their work

Next meeting is on **24 of February 2021**