AIRBORNE ISR/ UNMANNED AIRCRAFT SYSTEMS (UAS) LETTERS OF ASSIST (LOA)
UAS Joint Cell

Current Situation

- UAS/RPAS is growing in UN environment
- Multi discipliner and joint effort
- Permanent members; OMA, ATS, PD, OICT (brindisi/Valencia), Av Safety and OCT. Leading DOS/LD/ATS (CM)
- Regular meetings focal points
- Overall supervision and joint coordination of UAS issues UN clients
- Planning, generation, procurement deployment and operation.

Achievements and Challenges

- Development of UN UAS regulatory framework. New DOS Aviation Manual includes UAS dedicated chapter. Definition of requirements. Generation process
- Establishment of a UAS stakeholders network and forum within UNHQ working together on UAS issues. (SURs, LOAs, MOU, COE, Contracts, SOPS, etc).
- Common approach in generation, acquisition, deployment and utilization of UAS.
- LOA and contract negotiation and management.
## UN Peacekeeping UAS/RPAS Table

<table>
<thead>
<tr>
<th>Class</th>
<th>Category</th>
<th>Recommended employment</th>
<th>Normal approximate operating altitude AGL</th>
<th>Range</th>
<th>Recommended C2 level</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class III</td>
<td>HALE</td>
<td>Strategic/national</td>
<td>&lt;65,000 ft</td>
<td>Unlimited (BLOS)</td>
<td>AOR/mission</td>
<td>Global hawk</td>
</tr>
<tr>
<td></td>
<td>MALE</td>
<td>Operational/theatre</td>
<td>&lt;45,000 ft</td>
<td>Unlimited (BLOS)</td>
<td>AOR/mission</td>
<td>Heron 1/ Hermes 900</td>
</tr>
<tr>
<td>Class II</td>
<td>Tactical</td>
<td>Tactical formation</td>
<td>&lt;18,000 ft</td>
<td>&lt;200 km (LOS)</td>
<td>Brigade</td>
<td>Hermes 450/ Falco Sperwer</td>
</tr>
<tr>
<td>Class I</td>
<td>Small</td>
<td>Tactical unit</td>
<td>&lt;1,000 ft</td>
<td>&lt;50 Km (LOS)</td>
<td>Battalion/ regiment, sector</td>
<td>Scaneagle/ Shadow 200/ Luna</td>
</tr>
<tr>
<td></td>
<td>Mini</td>
<td>Tactical sub-unit</td>
<td>&lt;1,000 ft</td>
<td>&lt;25 Km (LOS)</td>
<td>Company, platoon, squad</td>
<td>Raven/Aladin/ Puma/ Skylark Heidrun V1</td>
</tr>
<tr>
<td></td>
<td>Micro</td>
<td>Tactical sub-unit</td>
<td>&lt;400 ft</td>
<td>&lt;5km (LOS)</td>
<td>Platoon, squad, team</td>
<td>WASPIII/MIKADO/ DJI Phantom 4, DJI Mavic Pro Hovermast-100</td>
</tr>
</tbody>
</table>
Generating an Aviation Unit

**ASSESS / GUIDE**
- Type, age, state, etc.
- Maintenance procedures
- Regulatory documents
- Spare parts
- Operational procedures
- Safety procedures
- Security procedures

**RECOMMEND**
- Avionics
- Protection
- SOPs

**ASSESS / GUIDE**
- Qualifications
- Experience

**Upgrades**
- Avionics
- Protection
- SOPs
Generating an Aviation Unit

As recommended by AAV

CHECK

Type, age, state, etc.
Maintenance procedures
Regulatory documents
Spare parts
Operational procedures
Safety procedures
Security procedures

CHECK

PDV

CHECK

Qualifications
Experience

As recommended by AAV

Upgrades
Pre-Deployment Visit

Team Tasks

**BRIEF**
- National Officials
- Key Contingent Personnel

**ASSESS**
- Equipment Technical Specifications
- Deployment Readiness
  - Operational Capability
  - Pre-Deployment Training

**DETERMINE**
- Amendments to Negotiated MOU
- Deviations to Negotiated MOU

**DISCUSS & REPORT**
- (MIL) Unit Certification Document
- Wrap up Meeting
- Final Report
On average it takes 6-9 Months from start to finish
LOA STRUCTURE

➢ SUR OPERATIONAL REQUIREMENTS

➢ TECHNICAL AVIATION REQUIREMENTS

➢ FINANCIAL REQUIREMENTS

➢ Ideally, LOA signed before deployment
Issues and challenges

- **Financial.** Reimbursement rates. High cost and limited PKO budgets. Potential delay or disagreement

- **Operational.** Effectiveness. SUR compliance, potential impact on operations

- **Technical.** UN Aviation standards, potential delays

- **Logistics.** Big logistic efforts to deploy, operate and maintain these capability. Limited Mission support (AAV critical step). Potential delays

- **Generation military Unit.** Complex generation process. Time consuming
Questions?