Global Airborne ISR & C2 Battle Management Holdings & New Requirements 2014-15

AIRBORNE ISR
& C2 Battle Management

CONTENTS

ISR/AEW AIRCRAFT INVENTORY

LATIN AMERICA 3

SUB-SAHARAN AFRICA 4

MIDDLE EAST & NORTH AFRICA 5

ASIA-PACIFIC 6

EUROPE 8

NORTH AMERICA 10

NEW PROGRAMMES AND REQUIREMENTS

LATIN AMERICA 12

SUB-SAHARAN AFRICA 13

MIDDLE EAST & NORTH AFRICA 14

ASIA-PACIFIC 15

EUROPE 16

NORTH AMERICA 17

AIRBORNE ISR & C2 BATTLE MANAGEMENT 2015 18

ISR/AEW AIRCRAFT INVENTORY

LATIN AMERICA

COUNTRY	ISR/AEW AIRCRAFT INVENTORY
ARGENTINA	4 P-3B Orion MPA (Navy); 2 S-2 Tracker MPA (Navy); 6 King Air 200 MPA (Navy) UAVs; Yarara
BAHAMAS	1 King Air 350 MPA
BRAZIL	5 R-99A (AEW); 8 P-3AM Orion MPA; 12 EMB.110 MPA; 3 ERJ-145; 6 Lear Jet 35. Note: C-295s are operated in SAR role. UAVs; Heron (15) – Police; Hermes 450 (more on order)
CHILE	3 C-295 MPA (Navy) (4 more required); 3 P-3A Orion MPA (Navy); 1 B707 (AEW); 5 EMB.110 MPA (Navy); 2 SR-22 + 1 on order UAVs; Hermes 900
COLOMBIA	3 CN-235 (Navy); 6 Cessna 208; 5 Citation Ultra MPA; 2 Turbo Commander MPA. Note: C-295s are operated in transport role. UAVs; Hermes 450 and 900; Scan Eagle
ECUADOR	2 CN-235 MPA (Navy); 4 King Air 200 MPA (Navy) UAVs; Heron (2) (Navy); Searcher II
HONDURAS	1 King Air 200 MPA
MEXICO	1 ERJ-145 (AEW); 2 ERJ-145; 2 C.212 MPA (Navy); 6 CN-235 + 1 on order MPA (Navy); 4 Metro III. Note: No E-2s remain operational. UAVs; Hermes 450 (4?); Heron (3); Hermes 900 (2) – Federal Police; Skylark 1; Orbiter
PERU	2 Metro 23; 2 F.60 MPA (Navy); 3 King Air 200 MPA (Navy); 1 Lear Jet 36
TRINIDAD & TOBAGO	2 Metro 23 MPA
URUGUAY	2 C.212 MPA; 1 King Air 200 MPA (Navy)
VENEZUELA	3 C.212 MPA (Navy)

SUB-SAHARAN AFRICA

COUNTRY	ISR/AEW AIRCRAFT INVENTORY
ANGOLA	4 C.212 MPA UAVs; Aerostar
GHANA	2 DA-42. Note: C.295s are operated in a transport role.
KENYA	1 Cessna 208 on order
MALI	3 F406 Caravan II MPA on order
MAURITANIA	3 BN-2 MPA; 2 Cessna 208 MPA + 1 on order; 2 PA-31 MPA
NIGER	2 DA42; 1 Cessna 208 +1 on order
NIGERIA	2 ATR-42 MPA UAVs; Indigenous Gulma TUAV
SENEGAL	2 King Air 200
SOUTH AFRICA	5 DC-3 MPA UAVs; Vulture; Seeker II

MIDDLE EAST & NORTH AFRICA

COUNTRY	ISR/AEW AIRCRAFT INVENTORY
ALGERIA	3 King Air 200/350 MPA; 6 Beech 1900. Note: C.295s are operated in a transport role.
EGYPT	7 E-2C Hawkeye (AEW). Note: C.295s are operated in a transport
IRAN	5 P-3F Orion MPA. UAVs; H-110; Fotros; Shahed 129; Yasir
IRAQ	3 Cessna 208; 8 CH2000; 5 King Air 350 + 1 on order; 2 SB7L-360
ISRAEL	2 G.550 (AEW) (3 more required); 1 B.707 (AEW); 3 Westwind MPA; 18 King Air 200; 7 RC-12 UAVs; Heron 450; Aerostar; Hermes 900; Skylark I
JORDAN	UAVs; Camcopter; Falco
LEBANON	UAVs; Raven
LIBYA	1 AN-32
MOROCCO	5 CL-415 MPA
OMAN	3 C.295s being delivered
QATAR	3 B.737 AEW Required
SAUDI ARABIA	5 E-3A (AEW); UAVs; Falco
TUNISIA	UAVs; Scan Eagle
U.A.E.	2 Saab 340 (AEW); 2 Dash 8 MPA; 3 King Air 90 UAVs; Camcopter (80 + 20 on option); Predator XP
YEMEN	2 Cessna 208

ASIA-PACIFIC

COUNTRY	ISR/AEW AIRCRAFT INVENTORY
AFGHANISTAN	10 PC-12NG + 8 on order
AUSTRALIA	6 B.737 Wedgetails (AEW); 15 AP-3C Orion MPA; 12 P-8A MPA Required UAVs; Heron (3); Raven; Skylark I
AZERBAIJAN	UAVs; Heron
BANGLADESH	2 Dornier 228NG (Navy)
CHINA	5 KJ2000 (AEW); 7 Y-8/KJ200 (AEW - Air Force) + 3 Navy (AEW); 2 B.737 MPA; 5 Challenger 870 + 2 on order; 3 Y-8 MPA (Navy); 3 Y-8/KJ200 AEW (Navy) UAVs; Vulture (1) Note; many indigenous designs operated and
INDIA	3 EMB.145i (AEW); 3 IL-76 + 2 on order (AEW); 5 IL-38 MPA (Navy); 8 P-8I MPA on order + 16 more on option (Navy); 5 B.707; 2 G.100 Astra; 8 BN-2 MPA (Navy); 26 DO-228 MPA (Navy); 9 KA-31 (AEW) (Navy); 1 Global 5000 UAVs; Heron (50 Air Force + more (Navy); Searcher II (100+)
INDONESIA	3 B.737 MPA; 1 CN-235 MPA + 2 on order (Air Force) ; 3 CN-235 + 2 on order + 3 more required (Navy); 29 Nomad 22/24 MPA (Navy); 6 C.212 MPA (Navy). Note: C.295s are operated in a Transport role. UAVs; Searcher
JAPAN	4 B.767 (AEW); 13 E-2C Hawkeye (AEW); 82 P-3C Orion MPA (JMSDF); 7 P-1 + 5 on order (further 60 required) MPA (JMSDF); 4 Lear Jet 36
MALAYSIA	4 King Air 200 MPA UAVs; Scan Eagle
NEW ZEALAND	6 P-3K Orion MPA
PAKISTAN	4 Saab 2000 (AEW); 3 Y-8/ZDK-03 + 1 on order (AEW); 6 P-3C Orion MPA (Navy); 7 F-27 MPA (Navy); 4 King Air 350; 1 Hawker 850 (Navy) UAVs; Falco; Shahpar (Army); Burraq; Luna X-2000
SINGAPORE	4 G.550 (AEW); 5 F50 MPA UAVs; Heron; Hermes 450; Searcher; Aerostar; Scan Eagle

ASIA-PACIFIC (CONT)

COUNTRY	ISR/AEW AIRCRAFT INVENTORY
SOUTH KOREA	4 B.737 (AEW); 16 P-3C/K Orion MPA (Navy); 8 Hawker 800; 18 S-3B MPA (Navy) Required UAVs; Global Hawk (4 on order); Searcher; Skylark II
SRI LANKA	2 King Air 200 MPA UAVs; Searcher; Blue Horizon
TAIWAN	6 E-2K (AEW); 11 S-2 MPA; 4 P-3C MPA; 2 Beech 1900
THAILAND	2 Saab 340 (AEW); 5 DA-42; 7 DO-228 MPA (Navy); 2 F-27 MPA (Navy); 1 P-3T MPA (Navy); 1 P180 on order UAVs; Searcher II; Aerostar
TURKMENISTAN	UAVs; Falco
VIETNAM	1 AN-28 MPA; 3 DHC-6 Guardian 400 MPA/SAR (Navy)

EUROPE

COUNTRY	ISR/AEW AIRCRAFT INVENTORY
BELARUS	UAVs; Grif-100
BELGIUM	UAVs; B-Hunter (12)
BULGARIA	1 AN-30
CROATIA	UAVs; Hermes 450; Skylark I
CZECH REPUBLIC	2 L.410s are operated for surveying UAVs; Raven
DENMARK	3 Challenger 604 MPA UAVs; Raven-B; Sperwer; Aerovironment UAVs on order
FRANCE	4 E-3F (AEW); 22 Atlantic MPA (Navy); 3 E-2C Hawkeye (AEW) (Navy); 5 Falcon 50 MPA (Navy); 5 Falcon 200 MPA (Navy) UAVs; Heron TP; MQ-9A Reaper (16 on order – delivery 2014-
GEORGIA	UAVs; Hermes 450
GERMANY	1 DO-228NG MPA (Navy); 8 P-3C Orion MPA (Navy) UAVs; Heron (3); K20; Luna; Aladin; Camcopter (Navy)
GREECE	4 EMB.145 (AEW)
HUNGARY	UAVs; Skylark I
IRELAND	1 BN-2; 2 CN-235 MPA UAVs; Orbiter
ITALY	4 Atlantic MPA; 1 G.III; 2 G.550 (AEW – on order); 4 AW101 (AEW) (Navy); 3 Bell 212 (Navy) UAVs; MQ-1B Predator (6); MQ-9B Reaper (6 + 2 on order); Raven-B; Camcopter S-100 (1- Navy); Scan Eagle (Navy)
LITHUANIA	UAVs; Scan Eagle
MALTA	2 BN-2 MPA; 2 King Air 200 MPA

EUROPE (CONT)

COUNTRY	ISR/AEW AIRCRAFT INVENTORY
NATO	17 E-3A (AEW) UAVs: Falco (20); Shadow 200 (12)
NETHERLANDS	UAVs; Scan Eagle; Raven; Sperwer; Skylark I; Aerostar; Aladin
NORWAY	6 P-3C/N Orion UAVs; Aladin
POLAND	9 AN-28 MPA (Navy) UAVs; Scan Eagle; Orbiter (12); Heron (2 on loan); Skylark I; Aerostar; Flyeye (Mini-Army)
PORTUGAL	5 C.295; 5 P-3C Orion
ROMANIA	2 AN-30 UAVs; Shadow 600; Scan Eagle
RUSSIA	13 A-50 (AEW); 15 IL-38 MPA (Navy); 30 IL-20/22; 13 AN-30; 1 TU-134 UAVs; Searcher; I-View; Bird Eye 400
SERBIA	UAVs; Orbiter
SLOVAKIA	1 L.410
SPAIN	5 P-3A/M Orion MPA; 8 CN-235 MPA UAVs; Raven; SIVA (3); Searcher
SWEDEN	2 Saab 340 (AEW) UAVs; Sperwer; Shadow 200 (2 Systems); Puma AE/Wasp (12 + 18
SWITZERLAND	UAVs; Ranger (24)
TURKEY	4 B.737 (AEW); 1 CN-235 MPA; 6 CN-235 MPA (Navy); 6 ATR-72 MPA on order (Navy) UAVs; Heron (10); MQ-1B Predator (6); Shadow 600; Gnat 750 (6);
U.K.	6 E-3D (AEW); 5 Sentinel R.1; 5 Shadow R.1; 3 BN-2; 11 BN-2 +1 more required (Army); 10 Sea King AsaC 7 (AEW) UAVs; Watchkeeper (54 on order); Hermes 450 (10 on loan); MQ-9A Reaper (10); T-Hawk (18 were operated in Afghanistan); Desert Hawk III (239 were operated in Afghanistan); Raven B; Black Hornet (Micro UAV (324) – 64 were operated in Afghanistan); Scan Eagle (Navy)
UKRAINE	1 AN-30; 1 AN-26

NORTH AMERICA

COUNTRY	ISR/AEW AIRCRAFT INVENTORY
CANADA	18 CP-140 Aurora MPA UAVs; Heron (3); Sperwer; Skylark I & II; Scan Eagle
U.S.A.	31 E-3B/C Sentry (AEW); 69 E-2C/D Hawkeye + 36 on order + 24 required (AEW) (Navy); 16 E-8C JSTARS; 1 B.707; 4 Dash-8/E-9; 1 DHC-6; 2 Falcon 20/200; 41 MC-21W; 1 NC-21; 11 RC-26; 2 OC-135; 16 U-28; 26 U-2S; 10 WC-130J; 2 DHC-7 (Army); 82 RC-12 (Army) + 6 Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS) on order; 115 P-3C Orion MPA (Navy); 24 P-8A Poseidon MPA (Navy) + 93 on order; 1 DHC-6 (Navy); 1 Metro 23 (Navy); 2 S-3B (Navy) **Army** UAVs; MQ-1C Gray Eagle (131+); RQ-11 Raven (1,272); I-Gnat ER; MQ-5B Hunter; RQ-7B Shadow; RQ-16; RQ-20 Puma; Wasp (22,000 requirement) **Navy** MQ-4C Triton (70 on order) – IOC 2016; Heron (2); MQ-8B Fire Scout (168); MQ-8C Fire Scout (30 planned); RQ-16 T-Hawk (372); Scan Eagle, RQ-21A Blackjack **Air Force** RQ-4 A/B Global Hawk (66 – 27 Active); MQ-1B Predator (up to 268 delivered); RQ-11B Raven (108); Wasp (442); Scan Eagle; MQ-9B Reaper (319); RQ-170 Sentinel **Special Operations Command (SOCOM)** Camcopter; Viking 400 (6); RQ-21 Integrator; Puma **Marines** RQ-11B Raven; RQ-7B Shadow; K-Max; Wasp III; Scan Eagle

NEW PROGRAMMES AND REQUIREMENTS

LATIN AMERICA

COUNTRY	ISR/AEW AIRCRAFT PROGRAMMES AND REQUIREMENTS
BRAZIL	RFP expected late 2014 or early 2015 for Maritime ISR System (UAV). Scan Eagle and Heron in contention. E-99 AEW&C aircraft modernisation programme scheduled for completion in 2017.
COLOMBIA	Airtec Inc will provide ISR services in Colombia in support of the U.S. Army Southern Command.
MEXICO	SkyDoc Aerostat to be procured for long-range land surveillance requirement.

SUB-SAHARAN AFRICA

COUNTRY	ISR/AEW AIRCRAFT PROGRAMMES AND REQUIREMENTS
GHANA	UAVs may be procured.
NIGERIA	Nigeria has purchased an unspecified reconnaissance aircraft.

MIDDLE EAST & NORTH AFRICA

COUNTRY	ISR/AEW AIRCRAFT PROGRAMMES AND REQUIREMENTS
ISRAEL	'Personal UAV' required for infantry.
SAUDI ARABIA	2 Beechcraft King Air 350s are to be modified for ISR missions for the RSAF, by the endof 2015. At least 12 King Air 350s are in service, but it is not known how many will be ISR-configured. 5 E-3A Sentrys are to be upgraded. Possible P-8 Poseidon prospect.
YEMEN	The U.S. is looking to equip Yemen with 25 Light ISR aircraft.

ASIA-PACIFIC

COUNTRY	ISR/AEW AIRCRAFT PROGRAMMES AND REQUIREMENTS
AUSTRALIA	Australia will retain 2 leased Heron UAVs after the withdrawal from Afghanistan. MQ-4C Tritons confirmed for procurement (numbers still to be decided). 4 P-8A Poseidons are on order, from a total requirement of 12 aircraft (8 approved so far). Deliveries are scheduled for 2017-2018, with FOC in 2021.
BANGLADESH	UAVs are being built indigenously for the Navy.
INDIA	The 6th of 8 P-8Is for the Indian navy was delivered in late 2014. The final 2 aircraft will be delivered in 2015. Up to 16 more are on option. 6 more AEW&C aircraft required. 12 more DO-228s have been approved for procurement.
JAPAN	Replacement required for E-2C Hawkeye. E-2D is possible. E-767s are being upgraded. 3 RQ-4 Global Hawks or MQ-4C Tritons may be procured. Ship-borne UAV also required.
MALAYSIA	Requirement for AEW&C aircraft, but subject to delays in procurement.
PHILIPPINES	Programme to procure 2 long-range MPAs initially, plus 4 more possibly later.
SOUTH KOREA	8 P-3Cs are being upgraded.
THAILAND	One P.180 Avanti II is being procured by the RTAF for photo-recce.

EUROPE

COUNTRY	ISR/AEW AIRCRAFT PROGRAMMES AND REQUIREMENTS
FRANCE	4 E-3Fs are undergoing mid-life upgrade. Replacement for Sperwer tactical UAV required around 2017. 15 Atlantique 2s planned to be upgraded by Navy.
GERMANY	Upgrade package approved for 8 P-3C Orions.
GREECE	2 P-3Bs to be re-activated, plus up to 5 more after mid-life upgrade.
ITALY	The Aeronautica Militare Italiana (AMI) is interested in procuring up to 10 P.1HH Hammerhead UAVs. Programme P-72A is for replacement of the Atlantic MPA aircraft by 4 ATR-72-600s for delivery from late 2014-2015. Possible P-8 Poseidon prospect.
NETHERLANDS	RFP for replacement of Raven UAVs expected in early 2015.
NORWAY	Possible P-8 Poseidon prospect.
NATO	E-3As to receive Glass Cockpit.
OSCE	S-100 Camcopters are being used by the Organization for Security and Co-operation in Europe (OSCE) in Ukraine, for ceasefire monitoring.
RUSSIA	A-50U Mainstay-B AEW&C aircraft are replacing the A-50s. A-100 will be next-generation AEW&C aircraft.
SPAIN	The Spanish Navy is expected to procure Scan Eagle UAVs.
SWITZERLAND	Hermes 900 selected to replace Ranger UAVs.
U.K.	The Project Crowsnest Airborne Surveillance and Control Programme for the Royal Navy has been accelerated to ensure an IOC of 2019. A limited number (believed to be 7) of Sea King ASaC.7s will be run-on after the OOSD of March 2016, to close the gap with the Crowsnest IOC. 4 P-8A Poseidons may be leased, but no decision is likely before the SDSR in 2015. Requirement may be linked to E-3D replacement. Ship-borne UAS capability will be tendered competitively after 2017. Scan Eagle currently employed.

NORTH AMERICA

COUNTRY	ISR/AEW AIRCRAFT PROGRAMMES AND REQUIREMENTS
CANADA	Possible P-8 Poseidon prospect.
U.S.A.	A G.550 equipped with a Conformal Airborne Early Warning System (CAEW) is to be procured by the U.S. Navy, for service entry before the end of 2017. The aircraft will be used as a range support aircraft. The 18th P-8A Poseidon was delivered to the U.S. Navy in October 2014. A total of 61 aircraft are now under contract. The programme is for 117 aircraft for delivery by FY 2019. The first ship-based flights of the MQ-8C Fire Scout are planned for late 2014. IOC (Initial Operational Capability) was achieved by squadron VAW-125 with the E-2D Advanced Hawkeye in October 2014. 75 E-2Ds planned for procurement. All 31 USAF E-3 Sentrys are to be upgraded to E-3G standard by 2020. IOC was achieved in July 2014, with 6 aircraft delivered so far. RFI for E-8C JSTARS replacement issued in early 2014. IOC planned for 2022. Recapitalisation programme planned over 5 years. U-2 to be retired in FY 2016. 70 MQ-4C Tritons planned for procurement by U.S. Navy. U.S. Army MQ-1C Gray Eagle and RQ-7B Shadow UAVs are being upgraded.

AIRBORNE ISR & C2 Battle Management

10 - 12 March, 2015
Thistle Marble Arch, London,
United Kingdom

In 2014 we bought you the world's first joint Airborne ISR and AEW forum. At Airborne ISR and C2 Battle Management 2015 we ask 'What's next for Joint ISR?'

During our inaugural **AISR and C2BM** conference earlier this year, nobody could have predicted the operational challenges currently facing NATO and partner nations, with the rapid rise to prominence of ISIS and the dramatic situation in Eastern Europe. The importance of accurate and timely intelligence provision and dissemination cannot be understated, but nor can the dangers of a reactionary approach to strategic planning. Consequently, AISR&C2BM will pose the question "What's next for Joint ISR" - for NATO as an organisation, for individual NATO states and for non-member partner nations - examining operational demands, desired capabilities and asset sustainment/support over the next five years.

The aim: To deliver a comprehensive assessment from leading NATO powers and partner nations on the challenges and opportunities for ISR provision beyond the current headlines, in order to provide insight into the medium-term actions to achieve a tangible step-change in co-operation and capability.

Take a front row seat as leading military experts explore how a proliferation of ISR assets in the past decade has led to the need for streamlined Process Exploitation and Dissemination to maximise collected data for informed decision making, as well as examining the complexities of working with non-traditional partners and the limitations of interoperability and intelligence sharing.

Discover our exclusive content and download the draft agenda for an insight into 2015's fantastic discussions.
What our 2014 delegates had to say about us...

- "A truly pan-ISR event with a fantastic array of ISR Stakeholders" **- Sqn Ldr Andy Bain, UK Rivet Joint Training Manager, Royal Air Force**
- "An excelent opportunity for all industrial, military and civilian partners to come together to dicsuss all the potential challenges and way forward as a whole committee" **- Kavan Chian Guang Rong, Air Warfare Officer, Republic of Singapore Air Force**
- "Congratulations for a successful change to the old AEW conference! - Better and more speakers. Better and more attendees" **- Erik Winberg, Saab**
- "Excellent representation of the UK and international Air ISR communities" **- Jonathan Loveless, Boeing**
- "Great conference! This follows the direction we have been trying to go regarding the tie of BM/C2 and ISR. Well done." **- Andy Deckard, Boeing**

www.AIRBORNEISRandBMC2.com
+44 (0) 207 368 9737 enquire@defenceiq.com

AIRBORNE ISR
& C2 Battle Management

CONFIRMED SPONSORS

Lead Sponsor

NORTHROP GRUMMAN

Conference Partners

SAAB

IAI ELTA
ELTA Systems

Associate Sponsor

Raytheon

Featured Exhibitors

KONGSBERG

Gulfstream
A GENERAL DYNAMICS COMPANY

Session Sponsor

ViaSat

Disclaimer

The information contained in this document is intended for research purposes only. Defence IQ accepts no responsibility for the use of this information or for its continued accuracy. All information is subject to change.