CLOSE AIR SUPPORT EMULATION AND SIMULATION FOR 1st ARTILLERY BRIGADE

Statement of Requirement (SoR)

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PART 1 – GENERAL DESCRIPTION

1. Introduction

1.1 1st Artillery Brigade (1 Arty Bde), 'The Designated Officer' (DO), holds the training responsibility for 140 Joint Terminal Attack Controllers (JTACs). The JTACs do not currently have access to a Land Forces (LF) specific JTAC Accredited Simulator¹ that enables them to achieve their mandated currency training requirements².

2. Background

2.1 The future Service solution, Joint Fires Synthetic Trainer (JFST), is not due to be released to service until Q2 2020. This capability gaps means that 1 Arty Bde cannot exploit the opportunity to utilise the simulated environment to undertake 980 controls per year, c. 424 hours (Hrs)³, of Close Air Support (CAS) that would need to be fulfilled with military or contract CAS to maintain minimum currency standards⁴.

1 Arty Bde JTAC Liability	Max Individual JTAC Currency Controls in an Accredited simulator	Max Individual JTAC Annual Evaluations per year	Currency Control Time (Mins)	Annual Evaluation Time (Mins)	Total Time for Currency Control per year (Hrs)	Total Time for Annual Evaluations (Hrs)	Total Controls Per Year	Total Sim Per Year (Hrs)
140	6	140	20	60	280	140	980	424

3. Requirement

- 3.1 Provision of a simulator system and training service to 1st Artillery Brigade. The requirement is for a managed simulator that is deployed, set-up, operated with the necessary personnel, maintained and removed by the supplier to deliver an Accredited (by UK JALO STANEVAL) service to the DO at their point of need (location and time) in order to maximise simulation controls whilst minimising demand on Front Line aircraft and maintaining currency in all available disciplines of Close Air Support (CAS).
- 3.2 The Contractor shall be required to conduct a minimum of 424 training hours per financial year. It is anticipated that a minimum of 104 and a maximum of 140 JTACs will be trained per financial year.

In accordance with; JCAS AP MOA 2004-01 - Joint Terminal Attack Controller (JTAC) (Ground) – Dated 1 Jan 2012, JSP 918 - Joint Terminal Attack Controller Policy Part 1: Directive and JSP 918 Joint Terminal Attack Controller Policy Part 2: Guidance (V3.0 - Dated Sep 15), Allied Tactical Publication 3.3.2.2 (NATO Standardization Agreement (STANAG) 3797) Minimum Qualifications for Forward Air Controllers and Laser Operators in support of Forward Air Controllers.

³ 840 currency controls lasting up to 20mins and 140 annual assessments lasting up to 60mins.

⁴ JSP 918 Pt 1 (V3.0 Sep 15): Synthetic Training. For the purposes of maintaining annual currency, JTACs and FAC (A)s must use a NATO/JFS ESC accredited synthetic trainer to complete up to 6 of the annual currency controls (3 per 6 months).

3.3 Any simulator service solution needs to have flexibility to adapt to the User⁵ adjustable training Forecast of Events (FoE), which can change due to operational requirements. The minimum notice for a change of delivery venue (within the UK) or date period is expected to be not less than 30 days from the planned day of delivery for the User.

3.4 JTACs are required to maintain currency (6 controls every 6 month) in order to retain Certified Qualified Status and be ready for operational deployment. Failure to maintain currency results in an inability for a JTAC to control unsupervised, which would prevent them from deploying. The action required to rectify this situation requires a period of supervised controls that will delay deployment and impact on a units operational Readiness State (RS).

4. Delivery

4.1 First delivery of an accredited simulator shall be 1st August 18

5. **Scope**

- 5.1 The general scope of the Contract requires a provider who is able to emulate UK and other Nations' CAS and ISR platforms, aircrew tactics and procedures for 1 Arty Bde subordinate units in the UK. Key to the value of the service will be the Contractor's ability to:
- 5.2 Simulate the required controls types for currency:
 - (a) Type 1, 2 and 3 Terminal Attack Controls (Day and Night).
 - (b) Bomb on Coordinate $(BOC)^6$ and Bomb on Target (BOT).
 - (c) Simulate a Fixed Wing CAS aircraft.
 - (d) Simulate Rotary Wing CAS aircraft.
 - (e) Enable a Ground designated Laser Control.

(f) Emulate an IR pointer to mark a target and establish Friendly Forces position.

- (g) Simulate a remote observer or FAC(A).
- (h) Video Down Link (VDL).

(i) Operate in accordance with current policy governing CAS, ISR, Battlespace Management (BM) and Joint Fires Integration (JFI).

⁵ 'User' - Subordinate Units to 1 Arty Bde; 1 RHA, 3 RHA, 4 RA, 19 RA, NRHQ (255 Bty).

⁶ BOC not currently able to be recorded for Currency by a JTAC in a simulator.

(j) Emulate voice procedure and tactics for NATO operated CAS and ISR platforms.

(k) Accurately simulate weapon delivery profiles for in-service UK and US air-surface weapons.

(I) Maintain a working knowledge⁷ of other NATO air-surface weapons.

(m) Provide Full Motion Video downlink to JTACs via means compatible with inservice video receiver systems.

- (n) Operate Digitally Aided-CAS systems and tactics.
- (o) Adhere to Joint Air Land Organisation (JALO) accreditation procedures.

(p) Have a thorough working knowledge of CAS and ISR requesting and reporting formats and mission briefs.

(q) Have a thorough working knowledge of and apply UK Air Command and Control (C2) tactics and procedures.

(r) Operate with fixed costs in the UK but to also be able to operate elsewhere internationally if required.

(s) Liaise with the customer to generate scenarios based on the training requirements of the Unit. Specifically the provider should be able to operate from unit generated or self-generate Special Instructions (SPINS), Concept of Operations (CONOPS), Concept of Fires (COF), Grid Related Graphics (GRGs) and mapping 1:25,000 and 1:50,000 to replicate a simulated environment and scenarios. The customer will provide the supplier with at least 30 days' notice when new scenarios are required.

(t) Provide pre-exerise briefs to the JTAC's reflecting the structure and objectives of the exercise as agreed with Unit formation senior.

(u) Generate simulation based on Real World locations to enable mission rehearsal. These may primarily be UK Training areas but the ability to operate in future engagement zones would prove extremely beneficial.

(v) The Contractor shall provide a pilot to conduct exercises in the simulator.

(w) The Contractor's simulator shall simulate environment to emulate topography of the 4 likely areas of operation and should include; Europe (likely MCO⁸), Dense Urban (MCO and COIN⁹), Tropical and Desert.

⁷ Employment TTPs, characteristics and constraints.

⁸ Major Conflict Operations.

⁹ Counter Insurgency.

(x) Operate a managed simulator system to an accredited standard and the Unit's point of need. This will predominantly be at Unit's 'home' bases (Tidworth, Topcliffe, Albemarle, Larkhill and Bath Army Reserve Centre) in order to minimise 'nights out of bed' for exercising troops. Through User/Contractor engagement, the Contractor shall be prepared to deliver the training at alternate MOD bases to meet the user point of need requirements to best support collective training or exercise periods. The Unit will be responsible for ensuring suitable facilities are available to house the simulator for the full period of use.

(y) The Contractor shall be able to emulate JTAC Surveillance devices as follows:

Laser Target designator (current in service solution – LF28A) Laser Spotter Binos. Military Binos IR Pointer (Izlid 1000) IR/ Day TV Range Finder (In service, JIM LR/ LRTV as part of Firestorm). Mil GPS (In service DAGR). Target Generation system (Cat 2) – Currently achieved with Firestorm

6. Locations

6.1 Training is to take place predominantly within the 1 Arty Bde regimental Units (Tidworth, Larkhill, Topcliffe, Bath Army Training Reserve Centre and Albemarle); however training may also be required at RAF Lossiemouth, Kinloss Barracks and RAF Spadeadam. Should the training unit not have a facility at the time required then a suitable alternative will be sourced from across other Army or RAF sites. There may also be requirements for the simulator to be utilised during a nominated training period in an overseas location. These are most likely to be in the USA, Estonia, Germany or the Czech Republic. This list is not exhaustive. This requirement is expected to be by exception and not a routine requirement.

7. Training Periods

7.1 The requirement is for the delivery of 54 Training Serials¹⁰ per FY. The Training Serials are required to be delivered in the following format:

(a) **2 x 5 Day Training Periods.** A 5-day Training Period will be used to support 1 Arty Bde JTAC Concentration Exercises (eg. Ex TERMINAL STRIKE). A 5-day Training Period comprises of consecutive weekdays (Mon – Fri) training from 0800-1200 Local and 1300 – 1700 Local daily. 1 Arty Bde may choose to utilise these 2 x 5 Day Training Periods sequentially (ie. Mon – Fri and Mon – Fri) during a 2 week period

¹⁰ Equating to 424 training hours.

(b) **9 x 4 Day Training Period.** A 4-day Training Period comprises of consecutive day training period. The Contractor should deliver simulation from 0800 - 1200 Local and 1300 - 1700 Local daily. These Training Periods will be conducted during the working week (i.e. Mon – Tue or Tue - Fri).

(c) **3 x 2 Day Training Periods.** A 2-day Training Period comprises of consecutive days training. These periods should be delivered on Sat and Sun from 0800 – 1200 Local and 1300 – 1700 Local daily.

(d) **2 x 1 Night Training Period.** A 1-night Training Period is a single event that should be conducted from 1800 – 2200 Local.

	Training Period			
Period	Weekday Weekday Weekend Weeknig			
Days	5	4	2	1
Qty	2	9	3	2
Hrs per Day	8	8	8	4
Total Hrs	80	288	48	8
Total Hrs	424 ¹¹			

8. Contract Management

- 8.1 The Contractor shall provide a robust and effective Contract management service that shall comprise, but is not limited to, the following:
 - Effective and efficient service delivery arrangements
 - Management and staffing arrangements
 - Reporting
 - Performance Monitoring
 - Business Continuity
 - Quality assurance
 - Customer satisfaction
 - Health, Safety and Environmental management
 - Risk Assessment/Management

9. Authority Obligations

9.1 The Authority will provide a covered facility to house the simulator and facilitate any site access requirements through the usual security request process. The

¹¹ 420 Hrs is the minimum requirement (based on a 20min Currency control), 424 Hrs provides a small margin for redundancy (less than 1%).

Contractor may be required to provide personal detail of staff in advance of the Training Period

10. Assumptions

- 10.1 Organic military capabilities (RAF Training and Operational aircraft) will not be able to provide the level of support required to maintain JTAC Currency for 1 Arty Bde's JTAC liability.
- 10.2 Military aircrew or JTAC-I will not be available to provide the SME 'Pilot' input in the simulator, required for accredited controls. The Contractor shall provide this.
- 10.3 The simulator shall be capable of broadcasting an FMV feed to the in service VDL receiver, to enable 'on the man' training.
- 10.4 Any simulated equipment shall replicate the current in service systems and be upgraded with the introduction of Digital Joint Fires Integration (DJFI) systems.
- 10.5 All non-military/defence personnel who do not hold security clearance to access military establishments will be escorted by the training unit.
- 10.6 It is anticipated that 3 controls per hour shall be trained during routine currency controlling.
- 10.7 On-site accommodation (at a cost to the Contractor) cannot be guaranteed to unescorted visitors. Therefore, the Contractor shall not plan for this unless a local agreement is made with the hosting units.
- 10.8 Any period of unserviceability will be reimbursed in time at no extra cost to the DO.
- 10.9 Post Event Reports (PERs) will be generated by the User (Formation Senior) at the end of each Training Period. These will be shared with the Contractor. The PER will comment on the number of controls achieved, how the scenario enhanced JTAC mission preparation or training and rate KPI's as outlined in condition 48 of the contract. This list is not exhaustive and additions will be at the discretion of the Formation Senior.
- 10.10The Contractor shall deliver the Contract with appropriately qualified and accredited personnel
- 10.11 In the event that the simulator is required overseas the Contractor shall be responsible for all costs associated with deployment and recovery.

PART 2 – KEY USER REQUIREMENTS (KUR)

KUR	User Requirement	Justification	Additional information	Relevant performance indicator (PI)
1	The user shall train in simulated environments that allow them to exercise all variant of CAS and TTPs to an Accredited standard.	Generate sufficient CAS to support maintain currency. Requirement to maintain JTAC currency and minimise burden on operational aircraft. Reduce JTAC's 'nights out of bed'. Reduce actual costs of live training (T&S) and aircraft (hours and munitions).	Support training for 1 Arty Bde subordinate units for up to 424 hrs per financial year (FY) at User point of need. Deliver no less that 424 hrs of accredited simulator training time each FY. Emulate representative weapon engagements, sensor profiles and voice procedure in accordance with extant doctrine and TTPs for respective in- service UK	4
			and NATO platforms.	

2	The user shall	To support	Emulate the	N/A
	have an FMV	JTAC	FMV feed	
	downlink.	currency	from current	
		controlling	RAF and	
		through FMV	NATO	
		downlink.	airborne	
			sensors on in-	
			service	
			platforms	
			using an	
			aircraft	
			mounted FMV	
			sensor and	
			downlink	
			transmitter.	
			Emulation	
			capable of	
			being	
			broadcasted	
			to the current	
			in service	
			Video Down	
			Link receiver	
			to enhance	
			'on the man'	
			training.	
			FMV will be	
			representative	
			of the current	
			service Pod's	
KUR	User	Justification	Additional	Relevant
	Requirement		information	performance
				indicator (PI)

0	The uper shell	To on ohio	A almostater	0
3	The user shall	To enable	A simulator	8
	have voice	emulation of	that can be	
	communicatio	CAS, ISR and	operated,	
	ns with the	battlespace	without the	
	provider.	management	need for	
		voice	service	
		procedure.	radios, that	
			replicates (in	
			user	
			interface)	
			TACSAT	
			(Joint Air	
			Request Net),	
			and Line of	
			Sight (LoS)	
			with the CAS	
			platform for	
			terminal	
			control.	
			The ability for	
			Service	
			provided	
			radios to be	
			used to	
			communicate	
			from the	
			exercising	
			JTAC with the	
			simulator	
			operators	
			(Pilot) to	
			enhance 'on	
			the man'	
			training.	
4	The	To ensure	A fully	6
	Contractor	efficient	managed	
	shall be self-	delivery of the	system that is	
	sufficient for	service,	establish,	
	transporting,	military	manned,	
	setting up,	support	maintained	
	maintaining	outside of the	and	
	and removing	delivery	recovered	
	the simulator	window will	from the	
	from Unit	not be	desired	
	locations.	possible.	training period	
			without any	
			external	
			support from	
			military	
			personnel.	

5	The simulator solution delivered must be accredited by JALO.	To enable validated JTAC currency training.	All relevant systems and personnel to be accredited by JALO.	1
6	A simulator that emulates the full range of JTAC in- service Surveillance Target equipment (Compass, Binoculars, LRTV and Laser Designator).	To enable the JTAC to practice utilising associated equipment to Detect, Recognise and Identify and Indicate targets in the simulated environment.	Replicate the in service JTAC optical and navigational equipment.	5

PART 3 – Glossary

AGL – Above Ground Level MAC – Mid Air Collision ALARP – As Low as Reasonably Possible MGRS – Military Grid Reference System AMSL – Above Mean Sea Level MISREP – Mission Report AOC – Air Operators Certificate MOA – Memorandum of Agreement ASMP – Air Safety Management Plan MOD – Ministry of Defence ASMS – Air Safety Management Plan MOU – Memorandum of Understanding ASR – Air Support Request NATO – North Atlantic Treaty Organisation ATP – Allied Tactical Publication NVA – Night Viewing Aid BM – Battlespace Management OPFOR – Opposing Forces BNG – British National Grid PM – Protective Marking C2 – Command and Control POC – Point of Contact CAA – Civil Aviation Authority PTA – Primary Training Audience CIS – Command and Information Systems RAF – Royal Air Force CTE – Collective Training Establishment ROVER – Remote Operations Video Enhanced Receiver DACAS – Digitally Aided Close Air Support RX – Receive DACA – European Aviation Safety Agency TACP – Tactica, Tachniques and Procedures EXXON – Exercise Control TX – Transmit FTU – Field Training Unit UAV – Unmanned Air Vehicle FW – Full Motion Video UHF – Virg High Frequency GLO – Ground Liaison Officer VFR – Visual Flight Rules HICON – Higher HQ C	FART 5 - Glussaly	
ALARP – As Low as Reasonably Possible MGRS – Military Grid Reference System AMSL – Above Mean Sea Level MISREP – Mission Report AMS – Air Safety Management Plan MOD – Memorandum of Agreement ASMP – Air Safety Management System MOD – Memorandum of Understanding ASR – Air Support Request NATO – North Atlantic Treaty Organisation ASR – Air Support Request NATO – North Atlantic Treaty Organisation ATP – Allied Tactical Publication NVA – Night Viewing Aid BMG = British National Grid PM – Protective Marking C2 – Command and Control POC – Point of Contact CAS – Close Air Support PXR – Post Exercise Report CFIT – Controlled Flight Into Terrain RA – Regulatory Article CTE – Collective Training Establishment ROVER – Remote Operations Video Enhanced Receiver DAGA – Defence Advanced GPS receiver DAGA – Defence Advanced GPS receiver SC – Security Checked DCA – Defence Cooperation Agreement STANAG – Standard Agreement DV – Developed Vetting STARTEX – Start of Exercise EXA – European Aviation Safety Agency TAC – Tactical Air Control Party ENDEX – End of Exercise TTP – Tactical Air Control Party	AAR – After Action Review	MAA – Military Aviation Authority
AMSL – Above Mean Sea Level MISREP – Mission Report AOC – Air Operators Certificate MOA – Memorandum of Agreement ASMP – Air Safety Management Plan MOD – Ministry of Defence ASMS – Air Safety Management Plan MOU – Memorandum of Understanding ASR – Air Support Request NATO – North Atlantic Treaty Organisation ATP – Allied Tactical Publication NVA – Night Viewing Aid BM – Battlespace Management OPFOR – Opposing Forces BNG – British National Grid PM – Protective Marking C2 – Command and Control POC – Point of Contact CAA – Civil Aviation Authority PTA – Primary Training Audience C3 – Cornmand and Information Systems RAF – Royal Air Force CTE – Collective Training Establishment ROVER – Remote Operations Video Enhanced Receiver DACAS – Digitally Aided Close Air Support RX – Receive DACAS – Defence Advanced GPS receiver SC – Security Checked DV – Developed Veiting STANTEX – Start of Exercise EXXON – Exercise Control TX – Transmit FTU – Field Training Unit UAV – Unmanned Air Vehicle FW – Full Motion Safety Agency TACP – Tactical Air Control Party EXXON – Exercise Control TX – Transmit	AGL – Above Ground Level	MAC – Mid Air Collision
AOC Air Operators Certificate MOA – Memorandum of Agreement ASMP – Air Safety Management Plan MOD – Ministry of Defence ASMS – Air Safety Management System MOU – Nemorandum of Understanding ASMS – Air Support Request NATO – North Atlantic Treaty Organisation ATP – Allied Tactical Publication NVA – Night Viewing Aid BM – Battlespace Management OPFOR – Opposing Forces BM – Battlespace Management OPFOR – Opposing Forces BM – Battlespace Management OPFOR – Opposing Forces C2 – Command and Control POC – Point of Contact CAA – Civit Aviation Authority PTA – Primary Training Audience CAS – Close Air Support RA – Regulatory Article C1S – Command and Information Systems RAF – Royal Air Force CTE – Collective Training Establishment ROVER – Remote Operations Video Enhanced Receiver DACAS – Digitally Aided Close Air Support Rx – Receive DV – Developed Veiting STANTEX – Stant of Exercise EXCON – Exercise Control TX – Trasmit FTU – Field Training Unit UAV – Unmanned Air Vehicle FW – Full Motion Video UHF – Utra High Frequency GLO – Ground Liaison Off	ALARP – As Low as Reasonably Possible	MGRS – Military Grid Reference System
ASMP – Air Safety Management Plan MOD – Ministry of Defence ASM – Air Safety Management System MOU – Memorandum of Understanding ASR – Air Support Request NATO – North Atlantic Treaty Organisation ATP – Allied Tactical Publication NVA – Night Viewing Aid BM – Battlespace Management OPFOR – Opposing Forces BNG – Birtish National Grid PM – Protective Marking C2 – Command and Control POC – Point of Contact CAS – Civil Aviation Authority PTA – Primary Training Audience CAS – Controlled Flight Into Terrain RA – Regulatory Article CIF – Controlled Flight Into Terrain RA – Regulatory Article CIF – Collective Training Establishment ROVER – Remote Operations Video Enhanced Receiver DAGR - Defence Cooperation Agreement STANRG – Standard Agreement DV – Developed Vetting STARTEX – Start of Exercise EXCON – Exercise Advanced GPS receiver SC – Security Checked DCA – Defence Cooperation Agreement UV – Tactical Air Control Party ENDEX – End of Exercise TTP – Tactical Air Control Party ENDEX – End of Taxining Unit UAV – Unmanned Air Vehicle FMV – Full Motion Video UHF – UItra High Frequency	AMSL – Above Mean Sea Level	MISREP – Mission Report
ASMS – Air Safety Management System MOU – Memorandum of Understanding ASR – Air Support Request NATO – North Atlantic Treaty Organisation ATP – Allied Tactical Publication NVA – Night Viewing Aid BM – Battlespace Management OPFOR – Opposing Forces BNG – British National Grid PM – Protective Marking C2 – Command and Control POC – Point of Contact CAA – Civil Avlation Authority PTA – Primary Training Audience CAS – Close Air Support PXR – Post Exercise Report CIF – Controlled Flight Into Terrain RA – Reyalatr Force CIF – Controlled Flight Into Terrain RA – Reyalatr Force CIS – Command and Information Systems RAF – Royal Air Force CIF – Collective Training Establishment ROVER – Remote Operations Video Enhanced Receiver DACAS – Digitally Aided Close Air Support Rx – Receive DACAS – Digitally Aided Close Air Support STARTEX – Stant of Exercise DY – Developed Vetting STARTEX – Start of Exercise EASA – European Aviation Safety Agency TACP – Tactical Air Control Party ENDEX – End of Exercise TTP – Tactics, Techniques and Procedures EXCON – Exercise Control Tx – Tramsmit	AOC – Air Operators Certificate	MOA – Memorandum of Agreement
ASR - Air Support Request NATO - North Atlantic Treaty Organisation ATP - Allied Tactical Publication NVA - Night Viewing Aid BM - Battlespace Management OPFOR - Opposing Forces BING - British National Grid PM - Protective Marking C2 - Command and Control POC - Point of Contact CAA - Civil Aviation Authority PTA - Primary Training Audience CAS - Close Air Support PXR - Post Exercise Report CFIT - Controlled Flight Into Terrain RA - Regulatory Article CIS - Command and Information Systems RAF - Royal Air Force CTE - Collective Training Establishment ROVER - Remote Operations Video Enhanced Receiver DAGR - Defence Cooperation Agreement STANAG - Standard Agreement DV - Developed Vetting STARTEX - Start of Exercise EASA - European Aviation Safety Agency TACP - Tactical Air Control Party ENDEX - End of Exercise Control Tx - Transmit FTU - Field Training Unit UAV - Unmanned Air Vehicle FW - Full Motion Video UHF - Very High Frequency GLO - Ground Liaison Officer VFR - Visual Flight Rules HICON - Higher HQ Control VHF - Very High Frequency HQ - Headquarters IELTS - International English Language Test System Sreaction IFR - Instrument Flight Rules IFR - Instrument Flight Rules	ASMP – Air Safety Management Plan	MOD – Ministry of Defence
ATP – Allied Tactical Publication NVA – Night Viewing Aid BM – Battlespace Management OPFOR – Opposing Forces BNG – British National Grid PM – Protective Marking C2 – Command and Control POC – Point of Contact CAA – Civil Aviation Authority PTA – Primary Training Audience CAS – Close Air Support PXR – Post Exercise Report CFIT – Controlled Flight Into Terrain RA – Regulatory Article CIS – Command and Information Systems RAF – Royal Air Force CTE – Collective Training Establishment ROVER – Remote Operations Video Enhanced Receiver DACAS – Digitally Aided Close Air Support Rx – Receive DAGR - Defence Advanced GPS receiver SC – Security Checked DV – Developed Vetting STARTEX – Start of Exercise EXCON – Exercise Control TX – Transmit FTU – Field Training Unit UAV – Unmanned Air Vehicle FMV – Full Motion Video UHF – Utra High Frequency GLO – Ground Lialson Officer VFR – Visual Flight Rules IFR – Instrument Flight Rules IR IR – International English Language Test System JSVest Joint Air Land Organisation JCVT – Joint Common Remote Viewing IFR – Instrument Fli	ASMS – Air Safety Management System	MOU – Memorandum of Understanding
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BM – Battlespace Management OPFOR – Opposing Forces BNG – British National Grid PM – Protective Marking C2 – Command and Control POC – Point of Contact CAA – Civil Aviation Authority PTA – Primary Training Audience CAS – Close Air Support PXR – Post Exercise Report CFIT – Controlled Flight Into Terrain RA – Regulatory Article CIS – Command and Information Systems RAF – Royal Air Force CTE – Collective Training Establishment ROVER – Remote Operations Video Enhanced Receiver DACAS – Digitally Aided Close Air Support Rx – Receive DACAS – Defence Cooperation Agreement STANAG – Standard Agreement DV – Developed Vetting STARTEX – Start of Exercise EASA – European Aviation Safety Agency TACP – Tactical Air Control Party ENDEX – End of Exercise TTP – Tactics, Techniques and Procedures EXCON – Exercise Control Tx – Transmit FTU – Field Training Unit UAV – Unmanned Air Vehicle FMV – Full Motion Video UHF – Ultra High Frequency GLO – Ground Liaison Officer VFR – Visual Flight Rules IER – Instrument Flight Rules IER – Instrument Flight Rules IRA – Infra Red	ATP – Allied Tactical Publication	NVA – Night Viewing Aid
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