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**AEDP-2
(Edition 1)**



**NATO Intelligence, Surveillance, and
Reconnaissance (ISR) Interoperability Architecture
(NIIA)**

VOLUME 4: NIIA Terms and Definitions

**AEDP-2
(Edition 1)**

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Brigadier General, POL(A)
Director, NSA

RECORD OF CHANGES

Change Date	Date entered	Effective Date	By Whom Entered

FOREWARD

The NATO Intelligence, Surveillance, and Reconnaissance (ISR) Interoperability Architecture (NIIA) provides the basis for the technical aspects of an architecture that provides interoperability between NATO nations' ISR systems. It is recognized that a complete architecture requires a technical view, a systems view, and an operational view to be complete. However, the systems and operational views are dependant on the specific scenario, with the systems involved determined by the participating nations, and the operational view defining how the various systems are actually interconnected. While a acquisition group such as Air Group 4 could theorize hypothetical scenarios and generate the systems and operational views based on those hypothetical scenarios, it is more important to focus on the technical issues of providing the interconnectivity options within national and NATO-owned systems, and leave the operations planning to the military community.

This AEDP provides the technical and management guidance for implementing the NIIA in ISR systems. It is divided into four volumes. Volume 1 provides the introduction and explanation of the technical architecture. Volume 2 contains guidance for managing the NIIA, specifically, the configuration management and test and certification guidance to the NIIA Custodians. Volume 3 is the technical guidance relevant to multiple parts of the architecture. Finally, Volume 4 provides terms and definitions. The four volumes are published as separate documents due to the large size of each volume.

This volume provides a reference for terms and definitions used in the architecture. This document is not intended to supersede the terms in AAP-6, "NATO Terminology". Rather, it is intended to supplement the terms in that document with the specific terms applicable to the ISR community and not of wide interest to the complete NATO community or nations. In addition, national glossaries or data dictionaries may be used for specific acquisition programs and will supersede this document in those occasions.

In addition to AEDP-2, users of the NIIA should obtain copies of each of the STANAGs incorporated into the architecture. These STANAGs provide the key interface standards needed to provide the systems interoperability. Many of the STANAGs also have separate Implementation Guides for the standard, published as separate AEDPs. In addition, specific guidance on sanitization and declassification of advanced memory recording systems (solid state and advanced disk arrays) is provided in a separate document for ease of dissemination. This document is AEDP-3. A complete list of the documents included in the set of STANAGs/AEDPs is in Annex A of Volume 1 of this document.

Questions or comments on this document can be provided to either the Secretary of Air Group 4 or the Custodian. Correspondence to the Secretary should be addressed to: Secretary, Air Group 4; Joint Armaments Section (Air Unit), International Staff; HQ NATO; B-1110, Brussels, Belgium (telephone: +32-2-707-4288; telefax: +32-2-707-4103). Correspondence to the Custodian should be addressed to: Custodian, AEDP-2; SAF/AQIJ; 1060 Air Force Pentagon; Washington D.C. 20330-1060; United States (telephone +1 703-588-2669; telefax: +1 703-588-1340).

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Executive Summary

The NATO Intelligence, Surveillance, and Reconnaissance (ISR) Interoperability Architecture (NIIA) defines the overall structure of the elements of the Intelligence, Surveillance, and Reconnaissance (ISR) community. The intent of this document is to provide the context for the standards developed by NATO Air Group 4, as well as commercial and international standards that are applicable to the ISR mission. It should be noted that while the original NIIA document was a description of an imagery-only architecture, the work of Air Group 4 has suggested that the scope of the Group's activities should include other sources of intelligence.

A description of operational environment, including a number of variations on the basic data flow, is provided. This description includes notional task flow descriptions and timelines. When examining the ISR data flow, it is noted what interfaces will be exercised during the two primary ISR Integration Working Group (ISRIWG) demonstrations. These two demonstrations, one to show interoperability at the input to the ground/exploitation system by using the NATO Advanced Data Storage Interface, and one to show interoperability at the output of the ground/exploitation system by using the NATO Secondary Imagery Format and NATO Standard Imagery Library Interface.

Each of the currently ratified and developmental standards developed under Air Group 4 is also reviewed. Each standard is discussed in terms of its application and use. Other documents needed to complete the architecture are also discussed.

Finally, the actual architecture is introduced and discussed. Four levels of interoperability, as defined in NATO interoperability publications, are reviewed. They are:

- Degree 1: Unstructured Data Exchange. Involves the exchange of human-interpretable unstructured data such as the free text found in operational estimates, analysis and papers.
- Degree 2: Structured Data Exchange. Involves the exchange of human-interpretable structured data intended for manual and/or automated handling, but requires manual compilation, receipt and/or message dispatch.
- Degree 3: Seamless Sharing of Data. Involves the automated sharing of data amongst systems based on a common exchange model.
- Degree 4: Seamless Sharing of Information. An extension of degree 3 to the universal interpretation of information through data processing based on co-operating applications.

It should be noted that the objective of the NIIA is to achieve interoperability at Degree 2, with some specific interfaces achieving Degree 3. Degree 4 can be considered a long term objective, but it was determined that lower degrees of interoperability should not be delayed in favour of ultimately achieving a higher degree. Degree 2 interoperability is a significant accomplishment, and will provide a high level of capability to NATO and coalition forces. Higher degrees of interoperability will be addressed once degree 2 is achieved and demonstrated.

Finally, a review of the standards as they fit into the architecture is performed. The standards are mapped against the International Standards Organisation (ISO) 7-Layer Interface Model. This mapping is performed to identify how the standards fit together and include commercial and international standards, as well as to identify the holes in the architecture that must be addressed by the activities of the ISRIWG and its subordinate groups. During the analysis, it was determined that most interfaces are adequately defined, and those requiring additional standardization can be filled with existing commercial and/or international standards. The key issue remaining is the multitude of choices provided by many of the standards, thereby allowing multiple implementations that would not be interoperable. It will be important to develop interface profiles that define the specific choices within each standard, thereby ensuring interoperability.

In summary, it is noted that the ISR architecture is applicable across all levels of NATO and coalition operations, including both Article 5 (war operations) and non-Article 5 (peacekeeping, peacemaking, etc.) campaigns. Finally, while it is recognised that the standards are complete, there is a large volume of support documentation, including configuration management plans, test and certification plans, implementation guidance, and acquisition guidance, that are available to the community. It is recommended that STANAG custodians consolidate this documentation into a single volume to accompany each standard. The accepted form of this volume is as an Allied Engineering Documentation Publication (AEDP). Combining the AEDPs with this document and the standards forms the complete NIIA definition and documentation set.

1.0 INTRODUCTION

This document provides a common set of terminology for use by the NIIA community. This terminology is both in terms of common terms and acronyms, and a data dictionary that defines the metadata elements used in the ISR community.

1.1 Scope

This document includes all of the specialized terms and definitions, and metadata descriptions applicable to the ISR community. It is not intended to supersede the other documents published by NATO for terminology or those in use by the international standardization community.

2.0 VOLUME CONTENTS

This document is divided into two Annexes. The first annex includes the terminology used in the major standards that comprise the NIIA. These terms were taken from a number of separate documents and represents a compilation of both the acronyms and definitions. In this annex, the acronyms and definitions are alphabetized together into a single listing of reference terms.

The second annex is a data dictionary. This annex includes an analysis of the relationship of the metadata fields of the different standards. A formal data dictionary, defining all of the metadata elements and how they are to be managed by the international standardization community (ISO/IEC) and since the standards of the NIIA are linked to standards and profiles of the ISO international standardization world, the specific metadata definitions of that organization will be used.

3.0 SUMMARY

This document is intended as a reference for users of the NIIA set of NATO publications. It is intended as a reference only and conflicts with other sources should be referred to the appropriate contracting agencies for resolution.

Terms and Definitions

Abbreviations/Acronyms/Definitions Introduction

The following terms are taken from other documents and compiled here for quick reference only. Because each standard is subject to revision, the source document should be referenced for the most current definitions.

For each term or acronym, the definition is given. Frequently, if a complex acronym is given, the words associated with the acronym are shown, and then the words are separately listed with the complete definition. Note that because the terms are strictly in alphabetic order, the complete definition may be located in a different part of the listing.

In defining the references, codes are used to reference the documents. The codes are as follows:

4545	STANAG 4545, "NATO Secondary Imagery Format (NSIF)"
4559	STANAG 4559, "NATO Standard Imagery Library Interface (NSILI)"
4575	STANAG 4575, "NATO Advanced Data Storage Interface (NADSI)"
4586	STANAG 4586, "Standard Interfaces of UAV Control System (UCS) for NATO UAV Interoperability"
4607	STANAG 4607, "NATO Ground Moving Target Indicator Format (GMTIF)"
4609	STANAG 4609, "NATO Motion Imagery Standard"
7023	STANAG 7023, "NATO Primary Image Format (NPIF)"
7024	STANAG 7024, "Air Reconnaissance Tape Recorder Standard"
7085	STANAG 7085, "Interoperable Data Links for Imaging Systems"
AAP-6	AAP-6, "NATO Glossary"
ATP-47	ATP-47, "Handbook for Air Reconnaissance Tasking and Reporting"
CASH	CIGSS Acquisition Standards Handbook (U.S.)
UKG	UK ISR Glossary
AEDP-2	AEDP-2, "NATO ISR Interoperability Architecture" (This document; Note that in some cases, terms are used only in the various parts of this document and those terms are included here.)

If more than one document references the same definition, all will be shown. In cases where more than one definition is shown, the source column shows the source of each definition as appropriate.

Comments, questions, additions, deletions, or corrections to this document should be referred to the Chairman of the ISR Integration Working Group, NATO Air Group 4

Term	Meaning	Source
0xXX	Hexadecimal representation where "XX" is the hexadecimal code; to distinguish hexadecimal field entries from decimal or BCS.	4575
1368	Tornado Medium Level Pod Programme	UKG
3D	3 Dimensional	UKG, 4586
4GL	4th Generation Language	4586
8/9 Encoding	1) The assignment of 9-bit NRZL words to bytes of specific value, in accordance with 5.5.5. 2) A method of encoding whereby an 8-bit data word is converted to a 9-bit code word in accordance with a conversion table.	7024
9-bit NRZL word	The immediate result of 8/9 coding.	7024
9-bit symbol	The binary representation of 9 bits of information to be magnetically recorded on tape.	7024
A		
A&T	Acquisition and Technology	CASH
A/A	Air-to-Air	UKG, 4586
A/C	Aircraft	UKG
A/G	Air-to-Ground	UKG, 4586
A/S	Area Search	UKG
A/V	Air Vehicle	4586
A3I	Advanced Accelerated Architecture Initiative - US initiative to combine a large number of Image Product Libraries	UKG, CASH
AA	Airborne Antenna	UKG
AAA	Anti-aircraft Artillery	ATP-47, UKG
AAF	Advanced Authoring Format	4609
AAL	ATM Adaptation Layer	4586
AAM	Air to Air Missile	UKG
AAR	Air to Air Refuelling	UKG
ABDR	Aircraft Battle Damage Repair	UKG
Aberration	Imperfection of an image resulting from design or fabrication error, or both. Types of aberration are astigmatism, chromatic aberration, coma, curvature of field, distortion and spherical aberration	UKG
ABL	Airborne Laser	UKG
ABMS	Air Battle Management System	UKG
ABO	Annular Beam Oscillator	UKG
ABR	Aero-Ballistic Rocket	UKG
ABRO	Army Base Repair Organisation	UKG
Absorption	Conversion of radiant energy into other energy forms, by passage through matter expressed for example as decibels per kilometre (dB/km)	UKG
Absorption Band	A region of the spectrum in which the absorption coefficient is a maximum	UKG
Absorption Coefficient	Fraction of energy absorbed per unit path length	UKG
Absorption Line	The narrow range of wavelengths of radiant energy absorbed by a medium	UKG
Absorption Spectrum	The spectral window of absorption. The spectrum formed by radiation that has been filtered through a material	UKG
ABSR	Advance Battlefield Surveillance Radar	UKG

Term	Meaning	Source
ABSV	Armoured Battlefield Support Vehicle	UKG
AC	1) Aircraft 2) Allied Committee 3) Alternate Current	UKG, 4586
ACC	1) Air Combat Command 2) Air Command Centre 3) Air Control Centre	UKG
ACCINTNET	ACC Intelligence Network	UKG
ACCIS	Automated Command and Control Information System	UKG
Accreditation	The result of the process to establish an approved test facility for a given standard	AEDP-2
ACCS	1) Air Command and Control System (NATO system interconnecting national systems - first operation capability scheduled 1999) 2) Army Command and Control System	UKG, 4586
ACE	Allied Command Europe (1 of 2 major NATO commands)	UKG
AceTR	Air core enhanced Turbo Rocket	UKG
ACINT	Acoustic Intelligence	UKG
ACK	Acknowledge	4586
ACLANT	Allied Command Atlantic (1 of 2 major NATO commands)	UKG
ACM	1) Air Combat Manoeuvring 2) Airspace Control Means	1) UKG 2) 4586
ACN	Airborne Communications Node	UKG
ACO	Airspace Control Order	UKG, 4586
ACP	Advanced Common Processor	4607
ACQ	Acquisition	ATP-47
ACS	1) Advanced Common Sensor 2) Aerial Common Sensor	1) UKG 2) UKG, 4586
ACTD	Advanced Concept Technology Demonstration	UKG
ACTIVE	Advanced Controls Technology for Integrated Vehicles	UKG
Activity area	Area in which there are moving vehicles/equipment over some period of time (e.g., road, parking lot, train station).	4607
ACV	Aircraft Cockpit Video	ATP-47
AD	1) Additional Data 2) Air Defence 3) Assistant Director	1) UKG, 4586 2 & 3) UKG
Adaptation	Change of sensitivity of the eye, through pupil dilation or contraction, to adjust to the illumination level, for example dark adaptation	UKG
ADATP-3	Allied Data Publications Number 3	UKG
ADC	Analogue to Digital Converter	UKG
ADM	Advanced Development Model	UKG
Administrative Support Team	The Group tasked within the configuration management plan to support the Custodian by performing the administrative tasks associate with the management of the publication	AEDP-2
ADOC	Advanced Deep Operations Centre	UKG
ADOCS	Automated Deep Operations Coordination System	UKG, 4586
ADP	Automatic Data Processing	ATP-47
ADR	1) Air Data Relay 2) Airborne Data Relay	1) UKG 2) 4586

Term	Meaning	Source
ADS	Automatic Dependent Surveillance	4586
ADST	Advanced Data Storage Technology	UKG
ADT	1) Active Denial Technology 2) Air Data Terminal	1) UKG 2) UKG, 4586
ADU	1) Air Defence Unit 2) Airborne Defence Unit	1) UKG, 4586 2) UKG
ADVC	Airborne Digital Video Cassette	UKG
AEC	Automatic Exposure Control	ATP-47
AEDP	Allied Engineering Documentation Publication	Multiple references
AEF	Aerospace Engineering Facility	UKG
AEOS	Advanced Electro-Optical System	UKG
Aerosol	Dispersed liquid or solid particles (such as dust, smoke or clouds) in a gas	UKG
AES3	Audio Engineering Society 3	4609
AESP	Army Equipment Support Publication	UKG
AETACS	Airborne Elements of the Theater Air Control System	4607
AEW	Airborne Early Warning	UKG
AFATDS	Advanced Field Artillery Tactical Data System	UKG, 4586
AFC2A	Air Force Command & Control Agency (USAF)	UKG
AFCS	Automatic Flight Control System	UKG, 4586
AFMMS	Air Force Mission Management System	CASH
AFMSS	Air Force Mission Support System	4586, CASH
AFRL	Air Force Research Laboratories	UKG
AFTAC	Air Force Technical Applications Center (USAF)	UKG
After-Image	The image retained after a portion of the retina has been fatigued by a bright or continued fixed stimulus. The after-image often has the colour complementary to the primary stimulus AID Area Imaging Device	UKG
AFV	1) Alternate Fuel Vehicle 2) Armoured Fighting Vehicle	UKG
AG IV	Air Group 4 (on ISR, NAFAG subordinate group)	Multiple references
AGC	1) Automatic Gain Control 2) Adjutant Generals Corps	1) 7085 1&2) UKG
AGE	Aerospace Ground Equipment	UKG, 4575
Agent	An Agent provides a service to a client on behalf of some other entity; often an agent is called a "proxy agent" to emphasise that it is acting on behalf of something else rather than on its own.	4586
AGL	1) Above Ground Level 2) Air to Ground Laser	1) ATP-47, UKG, 4586 2) UKG
AGM	Air to Ground Missile	UKG
AGS	1) Advanced Ground Station 2) Alliance Ground Surveillance (Program)	1) UKG 2) UKG, 4607
AH	Attack Helicopter	UKG
AHDL	Analogue Hardware Descriptive Language	UKG
AHRS	Attitude and Heading Reference System	UKG
AI	1) Air Interdiction 2) Air Intercept 3) Artificial Intelligence	1) ATP-47, UKG 2 & 3) UKG
AID	(target) Acquisition, Identification and Designation	UKG
All	Areas of Immediate Interest	ATP-47

Term	Meaning	Source
AIIM	Automated Image Import Module	4586
AIM	1) Advanced Infosec Machine 2) Air Intercept Missile	UKG
AIO	Air Integration Order	UKG
AIP	ASuW (Anti-Submarine Warfare) Improvement Program	UKG
AIPS	Airborne Image Processing System	UKG
AIPT	Advanced Image Processing Terminal. AGS's ground exploitation research tool capable of taking in IRLS, SLIR, processed SAR and TV standard inputs, eg. TIALD linked to a Sun computer network.	UKG
air reconnaissance	The collection of information of intelligence interest either by visual observation from the air or through the use of airborne sensors.	UKG
air surveillance	The systematic observation of air space by electronic, visual or other means, primarily for the purpose of identifying and determining the movements of aircraft and missiles, friendly and enemy, in the air space under observation.	4586
Air Traffic Control	A service provided for the purposes of: a) preventing collisions between aircraft and in the maneuvering area between aircraft and obstructions; and b) expediting and maintaining an orderly flow of air traffic. Also called ATC.	4586
air vehicle	The Air Vehicle is the core platform consisting of all flight relevant subsystems but without payload and data link	4586
aircraft	A vehicle, manned or unmanned, capable of sustained flight in the atmosphere by forces exerted upon it by the air.	UKG
AIRST	Advanced Infrared Search and Track	UKG
Airworthiness	The ability of an aircraft or other airborne equipment or system to operate without significant hazard to air crew, ground crew, passengers (where relevant) or to the general public or friendly military personnel over which such airborne systems are flown. Airworthiness is concerned with engineering aspects (Engineering Airworthiness) and the way an aircraft which is airworthy from an engineering aspect, is flown and its systems operated in the air (Operational Airworthiness).	UKG
AIS	Automated Information System	4586, 4607
AJ	Anti-Jamming	UKG, 4586
AK	AKnowledgement	7085
ALAR	Automated Launch And Recovery	UKG, 4586
ALARM	Air Launched Anti-Radiation Missile	UKG
ALARP	As Low As Reasonably Practical	UKG
ALCM	Air Launched Cruise Missile	UKG
ALEBI	Air / Land Enhancement for BRISS Intelligence	UKG
ALG	Autonomous Landing Guidance	UKG
ALO	Air Liaison Officer	ATP-47
ALTA	Area Limitation and Terrain Analysis	4607

Term	Meaning	Source
Altitude	The vertical distance of a level, a point or an object considered as a point, measured from mean sea level. The terms most relevant to UAV operations are: - Absolute Altitude: The height of an aircraft directly above the surface or terrain over which it is flying. - Critical Altitude: The altitude beyond which an aircraft or air-breathing guided missile ceases to perform satisfactory. - True Altitude: The height of an aircraft as measured from mean sea level.	4586
ALVL	Attachment Level	4545
AMA	Airborne Modem Assembly	UKG
AMCLD	Active Matrix Liquid Crystal Display	UKG
AMDRFM	Advanced Monolithic Digital Radio Frequency Memory	UKG
Amendment	In STANAG terminology, this defines each release of the STANAG (or AP) that incorporates only editorial or clarification changes	AEDP-2
AMFABS	Advanced Maintenance Free Aircraft Battery System	UKG
AMHS	Automated Message Handling Service	4586
AMIDARS	Airborne Minefield Detection And Reconnaissance System	UKG
AMPS	Aviation Mission Planning System	4586
AMRAAM	Advanced Medium-Range Air-to-Air Missile	UKG
AMTI	Airborne MTI	UKG
Analogue Link	rf data link which uses analogue transmission	7085
Analogue Transmission	Transmission of a continuously varying signal as opposed to transmission of a discretely varying signal. (FED-STD-1037B)	7085
Analysis	In intelligence usage, a step in the processing phase of the intelligence cycle in which information is subjected to review in order to identify significant facts for subsequent interpretation.	4586, 4609
Angle of Deviation	The angle through which a ray of light is deviated by a surface or a prism, and which is equal to the angle between an incident ray and the refracted or reflected ray	UKG
Angle of Elevation	The angle between the line of sight and the horizontal plane	UKG
Angle of Incidence	The angle between a ray of light striking a surface and the normal to that surface measured at the point of incidence	UKG
ANGS	Amphibious operation support and Naval Gunfire Support	UKG
Angstrom	Unit of length equal to 10 ⁻¹⁰ metre, often used to express wavelengths and inter-atomic distances	UKG
Angular Tracking	The use of a laser radar to produce a series of direct measurements of target angle and elevation which is used to produce estimates of present and future target positions	UKG
annotation data	Data associated with a frame or section of imagery.	UKG
annotation record	The magnetization pattern or associated information recorded into the annotation track.	7024
annotation track	The longitudinal track farthest away from the reference edge of the tape.	7024
ANR	Active Noise Reduction	UKG

Term	Meaning	Source
ANSI	American National Standards Institute	UKG, 4586, 4609, CASH
ANSI sync word	A wave-form as described for Preamble 1 in ANSI S4.40-1985 and as shown in figure 5 of this document, used for data recognition during playback of the control record.	7024
ANSI/NCITS	American National Standards Institute / National Committee for Information Technology Standards	4575
Antenna Gain	The ratio, usually expressed in decibels, of the power required at the input of a loss-free reference antenna to the power supplied to the input of the given antenna to produce, in a given direction, the same field strength, or the same irradiance, at the same distance. When not specified otherwise, the gain refers to the direction of maximum radiation. The gain may be considered for a specified polarization. [In this STANAG, antenna gain refers to isotropic gain (G_i) where the reference antenna is an isotropic antenna isolated in space.] (FED-STD-1037B).	7085
Anti-reflection Coating	A thin film of material applied to an optical surface to reduce the reflectivity and to increase the transmission of radiation through the surface	UKG
AO	Analysis Objective	UKG
AOA	1) Angle of Attack 2) Area of Attack 3) Analysis of Alternatives	1 & 2) UKG 3) 4607
AOB	Air Order of Battle	ATP-47
AOC	Air Operations Centre	ATP-47, UKG, 4586, 4607
AOCC	Air Operations Coordination Centre	ATP-47, UKG
AOD	Air Operations Directive	ATP-47, UKG
AOI	Area Of Interest	UKG, 4586, 4607
AOO	Area Of Operations	UKG
AOR	Area of Responsibility	UKG, 4586, 4607
AP	1) Allied Publication 2) Armour Piercing	1) UKG, 4575 2) UKG
APC	Armoured Personnel Carrier	ATP-47, UKG
API	1. Application Program Interface 2. Auxiliary Parameter Identifier	1) 4586, UKG, 4545, 4559, 4607, CASH 2) UKG
APL	A Programming Language	4607
append record	A record made within a single record session in which new data are recorded seamlessly at the end of previously recorded data.	7024
APRE	Army Personnel Research Establishment	UKG
APs	Allied Publications	UKG, 4586
APS	Application Profile Specification document	UKG
APU	Auxiliary Power Unit	UKG
AR	1) Armoured Reconnaissance 2) Anti-Reflection	UKG
ARC	1) Archive 2) Automatic Resource Control	1) UKG 2) 4607

Term	Meaning	Source
Area of Coverage	The area on the ground covered within a planned amount of time, usually a scene, as a part of the Mission Plan.	4607
Area of Interest	A specific area on the ground on which to perform a specific process. The area of interest is within the area of coverage if the collection plan has been setup properly. Four Latitudinal and Longitudinal points are used to describe the footprint of each beam position within the area of interest.	4607
Area Search	Reconnaissance or search of a specific area to provide new or updated information on general or specific situations and/or activities.	4586
ARFA	Allied Radio Frequency Agency	UKG
ARGS	Airborne Reconnaissance and Ground Station	UKG
ARITA	Airborne Information Reconnaissance Technical Architecture	UKG
ARM	Anti-radiation Missile	UKG
Armd	Armoured	UKG
ARP	1) Applied Research Programme 2) Advanced Research Programme	UKG
ARPA	Applied Research Programme Agency	UKG
ARR	Air Reconnaissance Requests	ATP-47
Array	A layout of multiple solid-state detectors or optical sensors in cameras or scanning devices, such as in a linear array or a matrix array	UKG
ARRC	ACE Rapid Reaction Corps	UKG
ARS	Action Request System	4607
ARWG	Air Reconnaissance Working Group	ATP-47
ARWP	Air Reconnaissance Working Panel (old MAS)	UKG
AS	Air Superiority	UKG
AS 90	155 mm Self Propelled Howitzer	UKG
ASAP	As soon as possible	ATP-47
ASARS	Advanced Synthetic Aperture Radar System	UKG, 4586
ASAS	1) Advanced Solid Axial Stage 2) All-Source Analysis System	1 & 2) UKG 2) 4586
ASAT	Anti-satellite	UKG
ASC	Advanced Structural Components	UKG
ASCC	Air Standardization Coordinating Committee	UKG
ASCII	American Standard Code for Information Interchange	4586, 7023
ASD	Assistant Secretary of Defense	CASH
ASFF	Air System Function Failure	UKG
ASIC	Application Specific Integrated Circuit	UKG
ASM	1) Air to Surface Missile 2) Air Space Management	1) ATP-47, UKG 2) 4586
ASMA	Air Staff Management Aid	UKG
ASMD	Anti Ship Missile Defence	UKG
ASN	Abstract Syntax Notation	7085
ASP	1) Aircraft Self-Protection 2) SAR Processing Application 3) Advanced Sound Ranging Project	UKG
ASRAAM	Advanced Short-Range Air to Air Missile	UKG
Asslt	Assault	UKG
Associated Data	That related data required for completeness of the standard.	4545

Term	Meaning	Source
Associated target report(s)	For entities consisting of individual vehicle/and/or clusters of such vehicles, a report or set of reports containing information about the entity.	4607
AST	Administrative Support Team	AEDP-2
ASTAT	Affordable Sensor Technology for Aerial Targeting	UKG
Astigmatism	An aberration where the images from vertical and horizontal lines in the scene are not coincident	UKG
ASTOR	Airborne Stand-off Radar; UK GMTI Surveillance Platform	UKG, 4607
ASuW	Anti-Surface Warfare	UKG
ASW	Anti Submarine Warfare	UKG
AT	Anti Tank	UKG
ATARS	Advanced Tactical Air Reconnaissance System	UKG, CASH
ATC	Air Traffic Control	ATP-47, 4586, UKG
ATCCIS	Army Tactical Command and Control Information System	UKG, 4586
ATD	1) Advanced Technology Demonstration 2) Aided Target Detection 3) Annual Training Directive	UKG
ATE	Automatic Test Equipment	UKG
ATEGG	Advanced Turbine Engine Gas Generator	UKG
ATF	1) Advanced Tactical Fighter 2) Airborne Trials Facility	UKG
ATGW	Anti Tank Guided Weapon	UKG
ATHS	Automated Target Hand-Off System	UKG, 4586
ATI	Air Target Identification	UKG
ATIRCM	Advanced Threat Infrared Countermeasures	UKG
ATL	GR1A Data software Application	UKG
ATM	1) Air Task Message 2) Air Traffic Management 3) Asynchronous Transfer Mode	1) ATP-47, UKG 2) 4586, UKG 3) 4586, UKG, 4559, 4609, CASH, 7085
Atmospheric Attenuation	The reduction in light flux that results from absorption or scattering of the photons when light travels through the atmosphere	UKG
ATO	1) Air Tasking Order 2) Air Task Order	1) ATP-47, UKG, 4586, 7023, 4607 2) 7085
ATP	Allied Tactical Publication (NATO)	UKG
ATR	Automatic Target Recognition	UKG, 4586, 4607
ATRA	Army Training and Recruiting Agency	UKG
ATRP	Advanced Tactical Reconnaissance Pod	UKG
ATS	1) Automatic Test System 2) Air Traffic Services	1) UKG 2) 4586
ATSA	Army Technical Support Agency	UKG
ATSC	Advanced Television Systems Committee	UKG
Attachment Level	A way to associate images and graphics during movement, rotation, or display.	4545
ATTD	Advanced Technology Transition Demonstration	UKG
Attenuator	A fixed or variable electronic transducer that reduces the amplitude of a wave without distorting the signal	UKG
ATTN	Attention	AEDP-2

Term	Meaning	Source
ATV	1) All Terrain Vehicle 2) Advanced Television	1) UKG, 2) 4609
ATV(P)	All Terrain Vehicle (Protected)	UKG
ATWCS	1) Advanced Tactical Weapons Control Station, 2) Allied Tactical Weapons Control Station 3) Advanced Tomahawk Weapons Control System 4) Allied Tactical Weapons Control Station	1 & 2) UKG 3 & 4) 4586
Automated take-off and landing	Automated take-off is the ability of the AV to be launched with a single command once planning and pre-flight have been conducted and permission to launch has been granted. Automated take-off includes releasing the AV from a securing device and flight of the AV from the flight deck to the first waypoint. Automated landing is the ability to land and secure the AV on the flight deck with a single command once the air vehicle has been stationed at a gate position no closer than 100 meters to the ship.	4586
AUX	AUXiliary (data)	7085
auxiliary data	1) Information generated by the collection system to describe all aspects of the mission as required except for the sensor data. 2) Optional user information of secondary importance. 3) Specifies sensor height and look angle as well as geographical location of the image and (eg.) mouse pointer. This is displayed on a screen. See distinction between this and ephemeris data. 4) Information which defines the conditions under which imagery was collected, including mission data, platform data, sensor parametric data, index and audio (cockpit voice) data, and other associated data as required. (STANAG 7023)	1) 7023 2) 7024 3) UKG 4) 7085
Auxiliary data file	A logical grouping of auxiliary data.	7023
AV	1) Air Vehicle 2) Anti Vibration	UKG
Availability Operational	A measure of the degree to which a system is either operating, or is capable of operating, at any time when used in its typical operational and support environment.	UKG
AVBATTIS	Aviation Battery Standardisation	UKG
AVC	Air Vehicle Control	UKG, 4586
AVGAS	Aviation Gasoline	UKG
AVI	Audio Video Interleaved	4609, UKG
AVMS	Autonomous Vehicle Management System	UKG
Avn	Aviation	UKG
AVO	Air Vehicle Operator	UKG, 4586
AVP	Air Vehicle Performance Group (Part of the Propulsion Technology Group in DERA)	UKG
AVPS	Air Vehicle Performance Study	UKG
AVS	Air Vehicle System	UKG
AW	Air Warning	ATP-47
AWACS	Airborne Warning And Control System	UKG, 4607
AWC	Air Warfare Centre	UKG
AWES	Area Weapons Effect Simulator	UKG
AZ	Azimuth (FED-STD-1037B)	7085

Term	Meaning	Source
azimuth	The angular deviation of the mean flux transition line from a line normal to the nominal track centerline.	7024
B		
Background Luminance	The intensity of the light in the background field of view behind the object being viewed	UKG
Backscatter	The scattering of radiation through an angle that exceeds 90° with respect to the original direction of the radiation	UKG
BAe	British Aerospace	UKG
BAF	Backup and Archive Facility	UKG
BAI	Battlefield Air Interdiction	ATP-47
Band	A well defined range of values (e.g., wavelengths, frequencies or energies of optical, electric, or acoustic radiation). At the pixel level, a band is represented as one of the vector values of the pixel. At image level band <i>i</i> of an image is the rectangular array of <i>i</i> th sample values from the pixel vectors.	4545
Bandwidth	(1) The difference between the limiting frequencies within which performance of a device, in respect to some characteristic, falls within specified limits. (2) The difference between the limiting frequencies of a continuous frequency band.	4545
BAQ	Block Adaptive Quantisation	UKG
BARB	British Army Recruitment Battery	UKG
BARO	Barometric Pressure	4545
Barrel Distortion	The distortion that causes the image of a square grid pattern to be barrel shaped	UKG
Base Image	The base image is the principal image of interest or focus for which other data may be inset or overlaid. The NSIF File can have none, one, or multiple base images. For multiple base images in a single NSIF File, the relative location of each base image is defined in the Image Location (ILOC) Field in each Image Subheader. This location will be the offset within the Common Coordinate System (CCS) based on the Segment to which the image is attached.	4545
Baseline	The smallest amount of photon energy to register on a detector	UKG
Basic Character Set (BCS)	1) A subset of the International Standards Organization Extended Set Character Set as defined in ISO/IEC 4873 and ISO/IEC 10646-1:1993; Amendment 2:1996. 2) A subset of the Extended Character Set. The most significant bit of the BCS characters is set to 0. Valid BCS characters code shall range from 0x20 to 0x7E, plus Line Feed (0x0A), Form Feed (0x0C) and Carriage Return(0x0D).	1) 4575 2) 4545
Basic Character Set-Alphanumeric (BCS-A)	A subset of the Basic Character Set (BCS). The range of allowable characters consists of space to tilde, codes 0x20 to 0x7E.	4545
Basic Character Set-Numeric integer (BCS-N integer)	A subset of the Basic Character Set-Numeric (BCS-N) comprising the digits '0' to '9' (codes 0x30 to 0x39), plus sign (code 0x2B) and minus sign (code 0x2D).	4545

Term	Meaning	Source
Basic Character Set-Numeric Positive Integer (BCS-N positive integer)	A subset of the Basic Character Set-Numeric (BCS-N) comprising the digits '0' to '9' (codes 0x30 to 0x39).	4545
basic dimension	1) A fundamental dimension on which the tape record of this standard is based. 2) A fundamental dimension to which no tolerance is applied.	7024
BATES	Battlefield Artillery Target Engagement System	UKG
BATS	BATUS Asset Tracking System	UKG
Battle Damage Assessment	The determination of the affect of all air attacks on targets (e.g., bombs, rockets, or strafing). Abbreviated as BDA.	4586
Battlefield Surveillance	Systematic observation of the battle area for the purpose of providing timely information and combat intelligence.	4586
Battlegroup	All arms unit of approximately battalion size based on armour / infantry.	UKG
BATUS	British Army Training Unit at Suffield, Canada	UKG
BB	Blackbody	UKG
BBGT	Brigade and Battlegroup Trainer	UKG
BCFT	Basic Combat Fitness Tests	UKG
BCS	Basic Character Set (ISO)	4545, 4575, 4607
BCS Space	BCS (and consequently ECS) code 0x20.	4545
BCS-A	Basic Character Set-Alphanumeric	4545
BCS-N	Basic Character Set-Numeric	4545
BDA	Battle Damage Assessment	ATP-47, UKG, 4586
BDAREP	Battle Damage Assessment Report	ATP-47
BDD	Background Display Dataset	UKG
Bde	Brigade	UKG
BDI	1) Battle Damage Information 2) Battle Damage Intelligence	UKG
BDR	Battle Damage Repair	UKG
BE	1) Basic Encyclopaedia 2) Belgium	1) UKG, 4586, 4545, 4559, 7023 2) Multiple
Beamsplitter	An optical component for dividing a beam into two or more separate beams	UKG
Beamwidth	The angular width of a beam of radiation. The beamwidth provides a measurement of the divergence or convergence of a beam of light	UKG
BER	1) Bit Error Rate 2) Bit Error Ratio (FED-STD-1037BFR)	1) UKG, 4586 2) 7085
Beryllium Oxide	A dielectric ceramic material with high electrical resistivity and high thermal conductivity	UKG
BFD	Back Focal Distance	UKG
BFL	Back Focal Length	UKG
BFM	Battlefield Mission	UKG
BG	Battlegroup	UKG
BGBMS	Battlegroup Battle Management System	UKG
BGP	Border Gateway Protocol	4586
BGUAV	Battle Group UAV	UKG
BGUMA	Battle Group Unmanned Aircraft	UKG

Term	Meaning	Source
BICES	Battlefield Information Collection and Exploitation System	UKG, 4586, 4559
BIDS	Bulk Imagery Data Store	UKG
BIFF	Basic Image Interchange Format (ISO 12087-5)	UKG
BIFF	1) Battlefield IFF 2) Basic Image Interchange Format (ISO/IEC IS 12087-5)	1) UKG 2) 4586, 4545, 4559, 4607
binary	Numbers in binary format are numbers to the base 2 and are shown with a subscript 2. (e.g. Decimal 10 is represented as <i>1010</i> 2 in binary format.)	7024
BIND	Berkley Internet Name Domain	UKG
Binocular	An instrument with two eyepieces in which both eyes can be used to view the image to achieve a stereoscopic effect	UKG
Biphase Coding	Biphase Manchester 2 where a "0" is a positive going transition at the center of the bit cell and a "1" is a negative going transition at the center of the bit cell. The transitions at the edge of the bit cell are inserted as necessary to make the code orthogonal.	7024
bi-phase mark	An encoding method for serial data in which an input bit of "0" is represented by transitions at the output at both edges of the bit-cell period of the input data and an input bit of "1" is represented by transitions at the output at both edges of the bit-cell period and an intermediate transition at the half bit-cell period. The resulting encoded signal is self-clocking and not polarity sensitive.	7024
BIPS	Billion Instruction Per Second	UKG
BIS	Bulk Image Store - same as BBS.	UKG
BISA	Battlefield Information System Application. Digitization concept, a software application supporting a particular digitization workprocess.	UKG
BIST	1) Built-in-Self-Test 2) Battlefield Information System Tool	UKG
BIT	Built in Test	UKG, 4586
BITE	Built in Test Equipment	UKG, 4586
Blackbody	An ideal blackbody absorbs all radiant energy falling upon it and appears black at all wavelengths. The radiation emitted by a blackbody when heated is known as blackbody radiation. The ideal blackbody has an emissivity of one	UKG
BLD	Build record ('bill of materials') software release configuration item type	UKG
BLING	Bladed ring	UKG
BLIP	Background Limited IR Performance	UKG
BLISK	Bladed disk	UKG
Block	1) A block is a rectangular array of pixels. 2) A set or collection of associated data files containing either sensor or auxiliary data. A block may be thought of as a dynamic set of sampled data, where the data in the block may change from one sampling to the next. <u>Blocks only exist in source and destination equipment memories.</u>	1) 4545 2) 7085
Blocked Image	A blocked image is composed of the union of one or more non-overlapping blocks.	4545

Term	Meaning	Source
Blocked Image Mask	A structure which identifies the blocks in a blocked image which contains no valid data, and which are not included in the NSIF File. The structure allows the receiver to recognise the offset for each recorded/transmitted block. For example, a 2x2 blocked image which contains no valid data in the second block (block 1) would be recorded in the order: block 0, block 2, block 3. The Blocked Image Mask would identify block 1 as a non-existing block, and would allow the receiving application to construct the image in the correct order.	4545
BLOS	Beyond Line Of Sight	UKG, 4586, 7085
BM	1) Ballistic Missile 2) Battlefield Management	UKG
BMC3I	Battle Management C3I	UKG
BMC4ISR	Battle Management C4I Surveillance and Reconnaissance	UKG
BMD	Ballistic Missile Defence	UKG
BMD-2	Airportable Tracked Soviet Armoured Personnel Carrier	UKG
BMS	1) Battle Management System 2) Business Management System	1) UKG, 4586 2) UKG
BMT	Ballistic Missile Technology	UKG
Bn	Battalion	UKG
BNC	British National Connector	4609, UKG
BNS	BICES NATO Segment	UKG
BOC	Battalion Operation Centre	UKG
BoI	Balance of Investment	UKG
BOM	Bit-Oriented Message	4586
BP	Black/white frame Photography	4545
BPA	Behavior Pattern Analysis	4607
BPR	Bypass Ratio	UKG
BR	Bit Rate (Data rate) - Return Link	7085
BR'	Bit Rate (Data rate) - Command Link	7085
Brewster's Angle	A beam of unpolarised light striking the surface of a dielectric material is partly reflected by the surface and partly refracted through the surface. The reflected ray is partially plane-polarised. At one specific angle of incidence, called the Brewster's angle, the reflected beam is fully plane polarised. The value of the Brewster's angle is a function of the refractive index of the material	UKG
Brightness	An attribute of visual perception, in accordance with which a source appears to emit more or less light. A pixel with a larger value is brighter than a pixel with a lower value.	4545
BSS	BATUS Safety System	UKG
Bty	Battery	UKG
BV	Boiling Vessel	UKG
BVR	Beyond Visual Range	UKG
BW	Bandwidth	UKG

Term	Meaning	Source
Byte	1) Eight bits. 2) A sequence of eight adjacent binary digits. 3) Eight binary digits (bits) 4) An ordered string of 8 bits, starting with the least significant and ending with the most significant bit, and representing a numeric value to be acted on as a unit.	1) 4586, 4609 2) 4545 3) 7023 4) 7024
byte marker	A means to label bytes during outer coding for error protection so that these bytes can be processed in proper order during inner coding.	7024
C		
c	Velocity of light in a vacuum	UKG
C	1) Communications Relay 2) Conditional	1) UKG 2) 4545
C&E	Control and Exploitation	UKG
C&S	Control & Status	UKG, 4586
C/A	Coarse/Acquisition	UKG
C/T	Coordinates and Time CGMTI Sub-Group	4607
C130J	C130J transport aircraft	UKG
C ²	(also C2) Command and Control	UKG
C2	Command and Control	UKG, 4586, 4607, 4609
C ² I	(also C2I) Command and Control Information	UKG
C2ICOE	Command, Control, and Intelligence Common Operating Environment	UKG
C ² W	Command and Control Warfare	UKG
C2W	Command and Control Warfare	UKG
C ³	(also C3) Command, Control and Communication	UKG
C3	Command, Control and Communications	ATP-47, UKG
C3CM	C3 Counter Measures	UKG
C ³ I	(also C3I) Command, Control and Communication Information	UKG, 4545, 4559
C3I	Command, Control, Communications & Information	UKG, 4586, 4609, CASH, 7085
C4	Command, Control, Communication and Computers	UKG, 4607
C4I	Command, Control, Communications, Computers, and Intelligence	UKG, 4586, 4609, CASH
C4IS	Command, Control, Communications, Computers and Information Systems	UKG
C4ISP	Command, Control, Communications, Computers, and Intelligence Support Plan	4607
C4ISR	Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance	4607
CA	1) Co-operative Agreement 2) Counter Air 3) Contract Award	UKG
CAA	Civil Aviation Authority	UKG
CAD	Computer Aided Design	UKG
CADSTAR	Computer Assisted Data Storage and Retrieval (JARIC)	UKG
CAE	Computer Aided Engineering	UKG
CAESAR	Coalition Aerial Surveillance and Reconnaissance Project	4607
CAF	Catalog Access Facility	CASH

Term	Meaning	Source
CALCM	Conventional Air Launched Cruise Missile	UKG
CALIC	Context Adaptive Lossless Image Compression	UKG
CALS	Continuous Acquisition and Life Cycle Support	UKG
CAM	Computer Aided Manufacturing	UKG
CAMEO-SIM	Camouflage Electro-optic Simulation	UKG
Candela	SI unit of luminous intensity	UKG
CAOC	Combined Air Operations Centre	UKG, 4586
CAP	Combat Air Patrol	UKG
CAR	Computer Aided Reporting	UKG
CARS	1) Common Approach Recovery System 2) Contingency Airborne Reconnaissance System	1) UKG 2) UKG, 4586, CARS
CAS	Close Air Support	UKG
CASE	Computer Aided Software Engineering	UKG, 4586
CASOM	Conventionally Armed Stand-Off Missile (Storm Shadow)	UKG
CAST	Combined Arms Staff Training	UKG
CAT	CAT Scan (Computerised Axial Tomography Scan)	4545
CATAQ	Catalogue of Army Qualifications	UKG
CATM	Civil Air Traffic Management	UKG
CATT	Computer Assisted Technology Transfer	UKG
Cavity	In a laser the cavity is the optical resonator which contains the lasing medium and has two coaxial mirrors at either end	UKG
CBA	Combat Body Armour	UKG
CBDE	Chemical and Biological Defence Establishment	UKG
CBIT	Continuous Built-In Test	UKG
CBP	Constant Battlefield Picture	4607
CBT	Computer Based Training	UKG
CC	1) Component Command 2) Connect Confirm	1) UKG 2) 7085
CC&D	Camouflage, Concealment and Deception	ATP-47
CCC	Command and Control Component	UKG
CCD	1) Charge Coupled Device 2) Camouflage, Concealment, and Deception 3) Coherent Change Detection	1) ATP-47, UKG, 4586, 4609, 7085 2) 4586 3) 4607
CCE	Common Communication Environment	UKG
CCI	Command & Control Interface	UKG, 4586
CCIP	Continuously-Computed Impact Point	UKG
CCIR	1) Commanders Critical Information Requirements (Request) 2) Commission Consultative Internationale de Radiodiffusion. Monochrome Television Standard.	UKG
CCIRM	Collection Coordination and Intelligence Requirements Management	ATP-47, UKG
CCIS	Command and Control Information System?	UKG
CCITT	International Telegraph and Telephone Consultative Committee (new name is ITU)	7085
CCM	Counter-Countermeasure	UKG
CCRP	Continuously-Computed Release Point	UKG
CCS	1) Charge Control System 2) Commander's Crew Station 3) Common Coordinate System	1 & 2) UKG 3) 4545

Term	Meaning	Source
CCSM	Command and Control Specific Module	4586
CCTV	Closed Circuit Television	UKG, 4586
CCW	Command and Control Warfare	UKG
CD	Camouflage Detection	ATP-47
cd	Candela	UKG
CD ROM	Compact Disk Read Only Memory	UKG
CDA	Centre for Defence Analysis	UKG
CDBS	Central Database System	4586
CDFI	Complex Data Format	UKG
CDFS	Core Driven Fan Stage	UKG
CdHgTe	Cadmium mercury telluride	UKG
CDIRRS	Cockpit Display Infra-Red Reconnaissance System	UKG
CDL	Common Data Link	UKG, 4586, 4607, 4609, CASH
CDMA	Code Division Multiple Access	UKG, 4586
Cdo	Commando	UKG
CDP	Concept Development Paper	UKG
Cdr	Commander	UKG
CDR	1) Confidential Document Register 2) Critical Design Review 3) Commander	1 & 2) UKG 3) 4586
CDRL	Contract Data Requirements List	UKG
CDS	1) Collateral Data Store 2) Contract Delivery Schedule	UKG
CDVP	Capability Demonstration and Validation Plan	UKG
CE	1) Chemical Energy 2) Controlled Extension	1) UKG 2) 4545
CECOM	Communications Equipment Command	UKG
CEDATA	CE User-Defined Data	4545
CEG	Career Employment Group	UKG
CEP	1) Capability Enhancement Programme 2) Circular Error Probability	1-2) UKG 2) 4586, 4607
Certification	The result of a successful compliance test – indicates that the implementation complies with the standard in question	AEDP-2
CES	Complete Equipment Schedule	UKG
CESG	Communications Electronic Security Group	UKG
CETAG	CE Unique Extension Type Identifier	4545
CFAR	Constant False Alarm Rate	UKG
CFE	Central Forces Europe	UKG
CFIT	Controlled Flight into Terrain	UKG
CFMA	Common Flight Management Architecture	UKG
CFR	Code of Federal Regulations	UKG
CGCS	Common Ground Control Station	4586
CGI	Computer Generated Imagery	UKG
CGM	Computer Graphics Metafile	UKG, 4545
CGMTI	Common Ground Moving Target Indicator	4607
CGS	Common Ground Segment/Station/System	UKG, 4586, 4609
CHAMPS	Chinook and Hercules Advanced Mission Planning System	UKG
Channel Coding	The process by which binary information obtained from the digital logic circuits is converted to a waveform suitable for recording on magnetic tape.	7024

Term	Meaning	Source
Charact	Characteristics	4586
Character	(1) A letter, digit, or other graphic that is used as part of the organisation, control, or representation of data. (2) One of the units of an alphabet.	4545
CHBDL-ST	Common High Bandwidth Data Link Surface Terminal	CASH
check bytes	Redundant data bytes added to the record data to facilitate error correction on play-back.	7024
Chromatic Aberration	An aberration where the images resulting from different wavelengths are not coincident either in position or size	UKG
CHS	Centre for Human Sciences. Carrying out mainly human factors research. They advise and set up experiments. Based at DERA Farnborough.	UKG
CI	Consolidated Instructions	UKG
CI/LI	Corrosion Inhibitor/Lubricity Improver (MIL-I-25017)	UKG
CIBIS	Common Infrastructure Battlefield Information System	UKG
CID	Combat Identification	UKG, 4586
CIDCAS	Combat Identification Close Air Support	UKG, 4586
CIDDS	Combat Identification Dismounted Soldier	UKG, 4586
CIF	Common Image Format (352x288)	4609
CIGSS	Common Imagery Ground/Surface System	UKG, 4586, CASH
CIIF	Common Imagery Interoperability Facilities	CASH
CIIP	Common Imagery Interoperability Profile	CASH
CIK	Clip In Kit	UKG
CINC	Combined Intelligence Centre	UKG
CIO	Central Imagery Office	UKG
CIP	1) Common Imagery Processor 2) Continuous Improvement Proposal	1 & 2) UKG 1) CASH
CIR	1) Commander's Information Requirement 2) Critical Intelligence Requirement	UKG
CIRC	Circular	4586
CIS	1) Combat Intelligence System 2) Command and Information Systems 3) Command Information System 4) Communication and Information System	UKG
CL, cl	Connection Less	7085
Class I	The type of change that incorporate significant or technical changes to the requirements of the STANAG (see AAP-3)	AEDP-2
Class II	The type of change that incorporates only editorial or clarification changes (see AAP-3)	AEDP-2
Class IV partial response	An equalization and detection method allowing improved signal per-formance for a limited bandwidth record/playback channel.	7024
Class IV partial response precoding	A non-redundant encoding achieved by passing the ran-domized formatted data through a feedback loop (with modulo-2 addition of feedback to data) including a 2-bit delay.	7024
Classification	Classification is the ability to determine unique characteristics about a contact, which allow the differentiation of military and commercial contacts and determination of contact class and type.	4586
Clear Eye Distance	The axial distance from the last mechanical surface of the eyepiece to the pupil	UKG

Term	Meaning	Source
CLEF	Commercial Evaluation Facility	UKG
CLEVEL	Complexity Level	4545
clock run-down	The sequence of bits at the end of each transverse scan track representing 1/6 the clock frequency of the transverse scan data.	7024
clock run-up	The sequence of bits at the commencement of each transverse scan track representing 1/6 the clock frequency of the transverse scan data.	7024
CLTS	Connection Less Transport Service	7085
Cluster tracks	Tracks formed for clusters of closely spaced vehicles/equipment.	4607
CM	1) Configuration Management 2) Countermeasure 3) Cruise Missiles	1-3) Multiple 1) 4586
CMAWS	Common Missile Approach Warning System	UKG
CMC	Ceramic Matrix Composite	UKG
CMDAL	Common Master Data and Assumptions List	UKG
CMF	Combat Mission Folder	UKG, 4586
CMF (Combat Mission Folder)	The combat mission folder (CMF) provides the operators, for pre mission briefing and during mission execution, with reference material for the planned mission.	4586
CMIP	Common Management Information Protocol (ISO/IEC 9596)	7085
CMISE	Combat Management Integration Support Environment	4586
CMOS	Complementary Metal Oxide Semiconductor	UKG
CMP	Common Message Processor	4586
CMRVP	Capability Modelling and Requirements Validation Plan	UKG
CMS(R)	Common Military Syllabus (Recruit)	UKG
CMT	Cadmium Mercury Telluride	UKG
CMWS	Common Missile Warning System	UKG
CNAD	Conference of National Armaments Directors	Multiple
CNI	Communications	UKG
CNR	1) Combat Net Radio 2) Carrier to Noise Ratio	1) UKG 2) 7085
CNS/ATM	Communications, Navigation, Surveillance/Air Traffic Management	UKG, 4586
CO, co	Connection Oriented	7085
CoA	Concept of Analysis	UKG
COBRA	Counter Battery Radar	UKG
COC	Combat Operations Centre	UKG
CoDE	Coherent Digital Exciter	UKG
Codeword	An 8/9 codeword consists of 9 binary digits	7024
Codeword Digital Sum	The digital sum variation from the beginning to end of a NRZI(1) symbol's wave-form. The CDS is calculated assuming that the NRZI(1) wave-form starts at a negative level, the binary levels are -1 and +1, and the wave-form transitions are centered relative to the corresponding bit cells.	7024
COE	Common Operating Environment	UKG, 4586, 4607, CASH
COEA	Cost and Operational Effectiveness Analysis	UKG
COEIA	Combined Operational Effectiveness & Investment Appraisal	UKG

Term	Meaning	Source
COG	Centre of Gravity	UKG
Coherent Light Source	A light source that produces radiation with waves vibrating in phase. The laser is a coherent light source	UKG
COIL	Chemical Oxygen-Iodine Laser	UKG
Collection Plan	Sequence of beam positions and modes of operation in the sensor platform.	4607
COLPRO	Collective Protection	UKG
COM	Character-Oriented Message/Communications	4586
Coma Aberration	An aberration where the effective magnification varies with aperture position	UKG
Combat Surveillance	A continuous, all-weather, day-and-night, systematic watch over the battle area to provide timely information for tactical combat operations.	4586
COMCAT	Character-Oriented Message Catalog	4586
COMINT	Communications Intelligence	UKG, 4586
Command and Control	The exercise of authority and direction by a properly designated commander over assigned forces in the accomplishment of a mission.	4586
Command and Control System	The facilities, equipment, communications, procedures and personnel essential to the commander for planning, directing and controlling operations of assigned forces pursuant to the missions assigned.	4586
Command Link	Link carrying commands and associated data-to-sensor and sensor platform -- normally from surface-to-air.	7085
Commercial Off The Shelf	A term used to describe an equipment procurement which has minimal development costs, similar to the US term Non-Developmental Item (NDI). In reality, even though equipment may be available from commercial stock, some modification of it will almost inevitably be required to suit the MOD's purpose unless the equipment is very straightforward.	UKG
Common Coordinate System (CCS)	The virtual two dimensional Cartesian-like coordinate space which shall be common for determining the placement and orientation of displayable data.	4545
Commonality	1) A state achieved when groups of individuals, organisations or nations use common doctrine, procedures or equipment. 2) A state achieved when groups of individuals or nations use common doctrine, equipment or procedures. Commonality includes systems or sub-systems with interchangeable repair parts and similar capabilities. A quality that applies to material or systems processing procedures. Like and interchangeable characteristics enabling each system or subsystem to be used or operated and maintained by personnel trained on a common system or subsystem without additional specialized training. Commonality includes having interchangeable repair parts or components and consumable items, which can be interchangeable without adjustment.	1) UKG 2) 4586
COMMS	Communications	UKG
Communications Intelligence	Technical and intelligence information derived from foreign communications by other than the intended recipients. Also called COMINT.	4586

Term	Meaning	Source
Communications Satellite	An orbiting vehicle that relays signals between communications stations.	4586
COMPASS	Common Operational Modelling, Planning and Simulation System	UKG, 4586
Compatibility	1) The capability of two or more items or components of equipment or materiel to exist or function in the same system or environment without mutual interference. 2) Capability of two or more items or components of equipment or material to exist or function in the same system or environment without mutual interference.	1) UKG 2) 4586
COMPLAN	Communication Plan	UKG, 4586
complex data	Data consisting of two elements: real and imaginary	UKG
complex16 data	Complex data consisting of 16 bytes total. 8 byte double for the real element followed by a 8 byte double for the imaginary element. Found in dcd_complex.h and ISR formatted data	UKG
complex8 data	Complex data consisting of 8 bytes total. 4 byte float for the real element followed by a 4 byte float for the imaginary element. Found in dcd_complex.h and ISR formatted data	UKG
Complexity Level (CLEVEL)	A code used in the NSIF File Header that signals the degree of complexity an interpret implementation needs to support to adequately interpret the files. Items that differentiate complexity include: number of image segments, number of symbol segments, number of text segments, size of the common coordinate system, size of image data, etc.	4545
Compliance test	A test conducted in a single implementation to show that the implementation complies with the provisions of the standard	AEDP-2
Component	A part or combination of parts, having a specific function, which can only be installed or replaced as a whole, and which is also generally expendable.	4586
COMSAT	Communications Satellite (commercial)	UKG
COMSEC	Communications Security - using cryptographic techniques	UKG, 4586, 7085
Concept of Operations	A clear and concise statement of the line of action chosen by a commander in order to accomplish his mission.	4586
Cond	Conditional Requirement	7023
Conditional Field	A state applied to a NSIF File Header or NSIF Subheader Data Field whose existence and content is dependent on the existence and/or content of another field.	4545
configuration profile	A collection of parameters that can be used to configure the AGS.	UKG
Confirm (primitive)	A primitive issued by a service provider to complete, at a particular service access point, some procedure previously invoked by a service user at that service-access point. (X.210)	7085
ConOps	Concept of Operations	UKG
CONOPS	Concepts of Operation	UKG, 4586, 4607

Term	Meaning	Source
Continuous-Wave Laser	A laser that emits a continuous beam of radiation rather than a pulsed laser that produces light in short bursts	UKG
Contract Data Requirements List	A form used as the sole list of data and information which the contractor will be obliged to deliver under the contract.	UKG
Control	User has ability to physically direct the imagery collection facility.	UKG
control record	The magnetization pattern or associated information recorded into the control track.	7024
control timing reference point	The center point of the wave-form edge in the center of the ANSI sync word.	7024
control track	1) The longitudinal track between the data area and the time code track. 2) The longitudinal track farthest from the reference edge of the tape which represents the scanner tachometer signal in record.	7024
control track sync tolerance	The maximum allowable longitudinal distance, measured along the reference edge, of the control timing reference point from the intersection of the helical track centerline and the data-area reference line.	7024
Controlled Airspace	An airspace of defined dimensions within which air traffic control service is provided to controlled flights. (i.e., flights within controlled airspace require approval by/coordination with the controlling authority, and certain maneuvers may be prohibited or restricted, or require supervision.)	4586
CONUS	Continental United States	CASH
Coordinated Universal Time	The time scale maintained by the International Earth Rotation Service (having previously been maintained by the Bureau International de l'Heure) that forms the basis of a co-ordinated dissemination of standard frequencies and time signals.	4545
COP	Common Operational Picture	UKG, 4586, 4607
COR	Core Software type	UKG
CORBA	Common Object Request Broker Architecture	UKG, 4586, 4559
CORCEN	Correlation Center	4586, 4559
CORD	Common Operational Requirements Document	UKG
CORNET	CorpORate NETwork	UKG
COSHH	Control of Substances Hazardous to Health	UKG
COSIP	Computer Open Systems Interface Processor	4586
COTS	1) Commercial Off The Shelf 2) Connection Oriented Transport Service	1) UKG, 4586, 4559, 4607, 4609, CASH 2) 7085
COU	Concept of Use	UKG
Countermeasures	That form of military science that, by the employment of devices and/or techniques, has as its objective the impairment of the operational effectiveness of enemy activity.	4586
CP	1) Colour frame Photography 2) Collection Plan	1) 4545 2) 4607
CPGE	Control Processing Group Electronics	UKG
CPGS	Cassette Preparation Ground Station	UKG

Term	Meaning	Source
CPI	Coherent Processing Interval	4607
CPU	Central Processor Unit. Has also been referred to as the Configuration Profile Unit which is more properly known as the Profile Management Unit (PMU)	UKG
CR	1) Close Reconnaissance 2) Communications Relay 3) Connect Request	1&2) UKG 3) 7085
CRA	Conformance Review Audit	UKG
CRC	1) Command and Reporting Centres 2) Cyclic Redundancy Check	1) UKG 2) 4586, 7023
CRC-16	An error checking algorithm for use on data.	7023
CRD	Common Route Definition	4586
CRESO	Complesso Radar Eliportato per la Sorveglianza; Italian GMTI Surveillance Platform	4607
CRP	Corporate Research Programme	UKG
CRPA	Controlled Reception Pattern Antenna	UKG
CRRES	Combined Release and Radiation Effects Satellite	UKG
CRT	Cathode Ray Tube	UKG, 4545
CS	1) Communications Server 2) Control Station 3) RF Coaxial Switch 4) Crew Station	UKG
CSAR	1) Combat Search and Rescue 2) Common Synthetic Aperture Radar	UKG
CSARP	Common SAR Processor	UKG
CSAT	Crew System Associate Technology	UKG
CSDB	Common Source Database	UKG
CSDF	Collected Signal Data Format	4586
CSM	CIGSS System Manager	CASH
CSMA	Carrier Sense Multiple Access	UKG
CSMA/CD	Carrier Select Multiple Access/Collision Detection	4586
CSS	Combat Service Support	UKG
CSS (1)	Command and Surveillance Systems (division 1)	UKG
CSSU	Canberra Sensor System Upgrade	UKG
CSSV	Combat Service Support Vehicle	UKG
CST	1) Core Software Team, 2) Custodial Support Team	1) UKG 2) AEDP-2
CSWG	CIGSS Standards Working Group	CASH
CTAPS	Contingency Tactical Air Combat System Automated Planning System	UKG
CTOL	Conventional Take-Off and Landing	UKG, 4586
CTOO	Central Target Of Opportunity	UKG
CUCS	Core UAV Control System	UKG, 4586
Curie Temperature	The temperature above which a ferro-magnetic material becomes paramagnetic	UKG
CURRENT	Water Current	4545
Curvature of Field	A lens aberration that causes the image of a flat object to be curved	UKG
CUSA	Common User Support Applications	UKG
Custodial Support Team	The Group tasked within the configuration management plan to make the decisions on the proposed changes	AEDP-2
CVF	Future Aircraft Carrier	UKG
CVL	Future Carrier	UKG

Term	Meaning	Source
CVLD	Cross Virtual Look Direction	7023
CVR	Combat Vehicle Reconnaissance	UKG
CVR(T)	Combat Vehicle Reconnaissance (Tracked)	UKG
CW	Continuous Wave	UKG
CWL	Continuous Wave Laser	UKG
D		
D	1) Decoy 2) Detection	UKG
D2	Degrade and Destroy	UKG
D3	Degrade, Disrupt, Deny,	UKG
D4	Disrupt, Degrade, Destroy, Deny	UKG
DA	Design Authority	UKG
DAD	Distributed Architecture Decoy	UKG
DAFECS	Digital Authority Full Engine Control System	UKG
DAMA	1) Decremental Assigned Multiple Access 2) Demand Assigned Multiple Access	1&2) UKG 1) 4586
Damage Assessment	The determination of the effect of attacks on targets.	4586
DARIDS	Digital Air Reconnaissance Imagery Data Standard specified in STANAG 7023.	UKG
Dark Current	The current flowing in a photodetector when there is no incident optical radiation on the detector	UKG
DARO	Defence Airborne Reconnaissance Office	UKG
DARP	Defence Airborne Reconnaissance Program	UKG
DARPA	Defence Advanced Research Projects Agency	UKG
DARTS	Dynamic Avionics Real-Time Scheduling	UKG
DAS	Defensive Aids Suite/System	UKG
DASA	Defence Analytical Services Agency (Daimler Benz Aerospace)	UKG
DASS	Defensive Aids Sub-System	UKG
DAT	Digital Audio Tape	UKG
Data	Information in digital format.	4545
data area	An area on tape that is defined by the end points of all possible helical track centerlines.	7024
data area reference line	A line inside the data area parallel to the reference edge at a specified distance from the reference edge.	7024
data area reference point	A point on each helical track's centerline at the boundary between preamble run-up and preamble sync pattern.	7024
Data Communication	The transfer of information between functional units by means of data transmission according to a protocol.	4586, 4545, 4559
data field	1) A continuous string of bits that is error protected. 2) The realisation of a Table as a data stream.	1) 7024 2) 7023
Data file address	Allows each Table to have a unique address. Used to relate the data file to a specific Table for decoding purposes.	7023
Data file number	A generation sequence number (not necessarily a transmission sequence number) and acts as a counter per source address.	7023
Data file size	The number of bytes in a data file.	7023
Data Item Description	A form used to define and describe the data required to be furnished by the Contractor. Completed forms are provided to contractors in support of, and for identification of, each data item listed in the CDRL.	UKG

Term	Meaning	Source
Data Link	The means of connecting one location to another for the purpose of transmitting and receiving data.	4586, 7085
Data Link Interface	An interface element, which acts as a "bridge" to convert information from and to the UCS to the data element, format and protocol required for a specific air vehicle and payload, including autoland capability.	4586
Data Protection	The protection of data from unauthorised interception and/or interpretation (see also Data Security).	7085
Data Security	The protection of data from unauthorised (accidental or intentional) modification, destruction, disclosure, or delay. (FED-STD-1037B)	7085
data segment	1) A segment that is primarily used for sensor data files but could also have interleaved auxiliary data files. 2) A group of 118 continuous bytes of user data.	1) 7023 2) 7024
Data Selection Sheet	A form used to indicate LSAR data element requirements to be furnished by the MoD and contractor.	UKG
DAWS	1) Defence Automated Warning System 2) Data Analysis Work Station	1) UKG 2) 4607
dB	Decibel (logarithmic power ratio)	UKG, 7085
DB	Data Base	UKG, 4586
DB(L)	Digitisation of the Battlefield (Land)	UKG
DBA	Dominant Battlespace Awareness	4607
DBDD	Database Design Description	UKG, 4586
dBi	Decibels referred to an isotropic radiator	7085
DBI	Database Interface	4607
DBL	Digitisation of the Battlespace (Land)	UKG
dBm	Decibel relative to 1 milli-Watt	UKG
DBMS	Database Management System	UKG, 4586, 4607
DBS	1) Direct Broadcast Service 2) Doppler Beam Sharpening	UKG
dBW	Decibel relative to 1 Watt	UKG, 7085
DC	1) Differential Correction 2) Direct Current 3) Disconnect Confirm	1&2) UKG 2) 4586 3) 7085
DCE	Distributed Computing Environment	4586
DCGS	Distributed Common Ground System (Station)	UKG, 4586, 4607, 4609
DCISSEG	Defence CIS Standards Executive Group	UKG
DCM	Data Link Control Module	4586
DCP	Data Collection Plan	UKG
DCRsi	Digital Cassette Recording System Improved.	UKG, CASH
DCT	1) Digital Compression Technique 2) Discrete Cosine Transform	UKG
DCW	Digital Chart of the World (Map Data Format)	UKG
DDL	1) Direct Downlinks 2) Distributed Disclosure Letter	1) 4586 2) 4607
DDOR	Deputy Director Operational Requirements	UKG
DDS	Defense Dissemination System	4586
DEA	Data Exchange Agreement	UKG, 4586
DED	<u>Data Element Definition</u> The definition of an element of data contained in a database such as the Logistic Support Analysis Record (LSAR) in terms of its format, meaning or any specific values.	UKG

Term	Meaning	Source
DEECS	Digital Electronic Engine Control System	UKG
Def Stan	Defence Standards Formal standardisation documents published by DPA which state the standards of design required by the MOD, and/or list particular components to be included in MOD equipment. They may be listed in Targets and Requirements, and are to be referenced in DPA Technical Specifications to contractors in order that they may become part of the contractual specification.	UKG
Default Parameters	Values of variable parameters to which the link will revert under specified conditions	7085
DEM	DTED Earth Model	4607
DEM/VAL	Demonstration and Validation	UKG
DEPTH	Water Depth	4545
DERA	Defence Evaluation & Research Agency	UKG
Derived Dimensions	Obtained from other fundamental dimensions by computation and is given for information purposes only	7024
DES	1) Directed Energy System 2) Data Extension Segment	1) UKG 2) 4545, 4607
DESDATA	DES User-Defined Data Field	4545
Design Characteristics	Values of parameters within which a given equipment is able to operate (see Section 3.2.4).	7085
Design Parameters	Qualitative, quantitative, physical and functional value characteristics that are inputs to the design process, for use in design trade-offs, risk analysis and development of a system that meets system requirements.	UKG
DESIEM	DES Data Segment Overflowed	4545
DESOFLW	DES Overflowed Header Type	4545
DESSHf	DES User-Defined Subheader Fields	4545
DESSHL	DES User-Defined Subheader Length	4545
Detailed target kinematics	Information derived from focusing a moving target. It contains information derivable by sampling the target at the radar PRF. It includes a rotation history and can include vibration information, all of which contribute to the classification state of the vehicle.	4607
Detection	1) In imagery interpretation the discovering of the existence of an object, but without recognition of the object. 2) The discovery by any means of the presence of a person, object or phenomenon of potential military significance. (JSP 110 AAP6).	1) ATP-47 2) UKG
DEW	Directed Energy Weapon	UKG
DF	Direction Finding	UKG
DFAD	Digital Feature Analysis Data (Map Data Format)	UKG, 4586, 4545, 4607
DFM	Design for Maintainer	UKG
DFS	Distributed File System	4586
DFWES	Direct Fire Weapons Effect Simulator	UKG
DGD&D	Director General Doctrine and Development	UKG
DGI	Digital Geographic Information	UKG
DGIWG	Digital Geographic Information Working Group	4545
DGPS	Differential Global Positioning System	UKG, 4586
DHT	Define Huffman Tables	7023
DIA	Defence Intelligence Agency	UKG

Term	Meaning	Source
DIAL	Differential Absorption Lidar	UKG
DIAM	Defense Intelligence Agency	7023
DICE	Data Integration and Collection Environment	UKG
DID	Data Item Description	UKG, 4586
DIE	Defence Interoperability Environment.	UKG, 4586
DIEPS	Digital Imagery Exploitation and Production System. A COTS software package produced by GTE systems, USA. Provides image registration, annotation and perspective generation. Imports/exports NITF1.1 and NITF2 imagery.	UKG
DIGEST	Digital Geographic Information Exchange Standard (http://www.digest.org)	UKG, 4545
Digital Link	rf data link which uses digital modulation	7085
Digital Modulation	The process of varying one or more parameters of a carrier wave as a function of two or more finite and discrete states of a signal (FED-STD-1037B).	7085
Digital Sum Variation	The running integral of the charge of the binary bit stream which will result in the coded NRZI(1) recording waveform. Calculated assuming the binary levels are +1 and -1.	7024
digitization	Application of dataTerminals to acquire, exchange and employ timely battlefield information throughout the entire battlespace.	UKG
Digraph	A two letter reference code.	4545
DII	Defence Information Infrastructure	UKG, 4586, 4607, CASH
DII/COE	Defense Information Infrastructure/Common Operating Environment	4586
DIM	Digital Image Map (Map Data Format)	UKG
DIMOS	Digital Mobile Operations Support System	UKG
DIRCM	Directed Infrared Countermeasures	UKG
Direct maintenance man-hours	Man-hours spent on the repair or preservation of the system. Direct maintenance man-hours do not include administrative or supervisory time for maintenance personnel.	4586
DIS	1) Data Interface Subsystem. The whole imagery data input system of the AGS eg. input of data via tape. 2) Defence Intelligence Staff 3) Distributed Interactive Simulation 4) Draft International Standard	1-3) UKG 3) 4607 4) 4545, 7085
DISA	Defence Information Systems Agency	UKG, 4586, CASH
Discrimination	The minimum level to which a system is capable of sensing differences in light intensity between two regions in a field of view	UKG
DISN	1) Defense Information System Network 2) Defense Integrated Secure Network	1&2) 4586 1) CASH
Display Level	The Graphic Display Level of the Segment relative to other displayed Segments in a composite display.	4545
Distortion	An aberration where straight lines in the scene are imaged as curves, resulting in a square grid in the scene being either barrel or pincushion shape	UKG
Div	Division	UKG
Divergence	The bending of light beams away from each other, for example by a concave lens or a convex mirror	UKG

Term	Meaning	Source
DJ	Deceptive Jamming	UKG
DL	Data Link	UKG, 4586
DLA	Defence Logistics Agency	UKG
DLGS	Data Link Ground Station	UKG
DLI	Data Link Interface	UKG, 4586
DLMB	Digital Landmass Blanking Data (Map Data Format)	UKG
DLO	Defence Logistics Organisation	UKG
DLS	Data Link Study	UKG
DLVL	Display Level	4545
DLW	Director of Land Warfare	UKG
DM	DLGS Manager	UKG
DMA	1) Defence Mapping Agency 2) Dynamic Memory Allocation	1&2) UKG 1) 4545
DMC	Data Module Code	UKG
DMD	Digital Micromirror Device	UKG
DME	Distance Measuring Equipment	UKG
DMICS	Digital Moving Imagery Compression Study	UKG
DMPI	Desired Mean Point of Impact	ATP-47, UKG
DMR	Digital Modular Radio	UKG
DMRL	Data Module Requirements List	UKG
DMS	Defense Message Service	4586
DMSP	Defence Meteorological Satellite Program	UKG
DNAW	Day Night All Weather	UKG
DNS	Domain Name Service	4586
DOCISS	Defence Operational Command, control and communication Information Systems Strategy	UKG
DoD	Department of Defense (USA)	UKG, 4586, 4545 4609, CASH
DoDIIS	Department of Defence Intelligence Information System	UKG
DoE	Department of Energy	UKG
DOORS	Dynamic Object-Oriented Requirements System	UKG
Dormant system	A dormant system is a system, which is stored in a full up condition. A dormant system may be transported in packing containers. However, the system is not operated during the dormant period.	4586
DP	Development Prototype	UKG
DP&RG	Development Projects and Research Group	UKG
DPA	1) Defence Planning Assumptions 2) Defence Procurement Agency	UKG
DPCA	Displaced Phase Centre Antenna	UKG
DPG	Defence Planning Guidance	UKG
DPL	Diode-Pumped Laser	UKG
DPM	DERA Package Manager (Bob Frampton for 02g32)	UKG
DPSAPP	Digital Products Server Applications	4586
DPSSVR	Digital Products Server-Server Segment	4586
DQT	Define Quantisation Tables	7023
DR	Disconnect Request	7085
DRACAS	Data Reporting Analysis and Corrective Action	UKG
DRAM	Dynamic Random Access Memory	UKG
DREA	Defence Research Establishment Atlantic (Canada)	UKG
DREO	Defence Research Establishment Ottawa (Canada)	UKG
DREV	Defence Research Establishment Valcartier (Canada)	UKG
DRFM	Digital Radio Frequency Memory	UKG

Term	Meaning	Source
DRI	1) Detection Recognition and Identification 2) Define Restart Interval	1) UKG 2) 7023
DRP	Defence Research Package	UKG
DS	Direct Sequence	UKG, 4586
DSCS	Defence Satellite Communication System	UKG
DSN	Defence Switched Network	UKG
DSO	Defensive System Operator	UKG
DSP	Digital Signal Processing	UKG, 4607
DSS	1) Decision Support System 2) Digital Satellite System	UKG
DSSS	Direct Sequence Spread Spectrum	7085
DT	Data Terminal	7085
DT&E	Development Test and Evaluation	UKG, 4607
DTD	1) Data Transfer Device 2) Document Type Definition 3) Digital Topographic Data	1&2) UKG 3) 4607
DTE	Data Terminal Equipment	7085
DTED	Digital Terrain Elevation Data	UKG, 4586, 4545, 4607, 4609
DTEM	Digital Terrain Elevation Models	4545
DTG	Date Time Group	ATP-47, 7023
DTM	1) Data Transfer Module 2) Digital Terrain Model	UKG
DOO	Downwards Target Of Opportunity	UKG
DTOP	Digital Topographic Data	4607
DTU	Data Transfer Unit	UKG
Dual Laser	A gas laser with Brewster windows and concave mirrors with dissimilar reflective properties at each end of the tube, which simultaneously produces two separate wavelengths of laser radiation	UKG
Duplex Operation	An operating method in which transmission is permitted, simultaneously, in both directions of a telecommunication channel. (FED-STD-1037B).	7085
DV	Digital Video	4609, UKG
DVB	Digital Video Broadcasting	UKG
DVB-S	Digital Video Broadcast – Satellite	4609
DVB-T	Digital Video Broadcast – Terrestrial	4609
DVC	Digital Video Cassette	UKG
DVCR	Digital Video Cassette Recorder	UKG
DVD	1) Digital Versatile Disk 2) Digital Video Disk	4609, UKG
D-VHS	Digital VHS	4609, UKG
DVI	Direct Voice Input	UKG
D-VITC	Digital VITC	4609, UKG
DVITS	Digital Video Imagery Transmission System	UKG
DVOF	DMA Vertical Obstruction File	UKG
Dwell	(Continuous) Sequence of bits transmitted on the same frequency (between two frequency hops).	7085
E		
E	1) Incidence 2) irradiance	UKG
EA	Electronic Attack	UKG
EAC	Equipment Approvals Committee	UKG
EAD	Extended Air Defence	UKG

Term	Meaning	Source
EATCHIP	European Air Traffic Harmonisation and Integration Programme	UKG
EATMS	European Air Traffic Management System	UKG
EB	Engineering Build	4586
EBU	European Broadcast Union	4609, UKG
EC	Electronic Combat	UKG
ECC (Error correction coding)	A method of adding redundant data in the form of parity check bytes to a recorded signal such that the location of errors in the playback data can be identified and the erroneous playback data corrected.	7024
ECCM	Electronic Counter Counter Measures (now replaced by EPM)	UKG, 7085
ECEF	Earth-Centered Earth-Fixed	4607
ECL	Emitter Coupled Logic	UKG
ECM	1) Electronic Counter Measures 2) Engine Condition Monitoring	1) 4586, 7085 1&2) UKG
ECOTS	Enhanced Commercial Off The Shelf	UKG
ECR	Equipment Concepts Report	UKG
ECS	1) Environmental Control System 2) Exploitation and Control Study 3) Extended Character Set	1&2) UKG 3) 4545, 4607
ECS-A	Extended Character Set-Alphanumeric	4545
ED	Enhanced Definition	4609, UKG
Edition	In STANAG terminology, this defines each release of the STANAG (or AP) that incorporate significant or technical changes to the requirements of the STANAG (see AAP-3)	AEDP-2
EEA	Essential Elements of Analysis	UKG
EEI	1) External Environment Interface 2) Essential Elements of Information 3) External Entity Interfaces	1) UKG, 4586, 4545 2) UKG, 4586, 4545, 7023, CASH 3) 4586
EELV	Evolved Expendable Launch Vehicle	UKG
EEPROM	Electrically Erasable/Programmable Read Only Memory	UKG
EF	Eurofighter	UKG
EFC	Executive Function Command	7085
EFD	Executive Function Data	7085
EFF	Essential Function Failure	UKG
EG	Engineering Guideline	4609
EHF	Extremely High Frequency	UKG
EHP	Electron Hole Pairs	UKG
EIA	Electronic Industries Association	4609
EIAC	End Item Acronym Code	UKG
EIAW	Enhanced Imagery Analysis Workstation	ATP-47
EICO	Environmental Impact Control Officer	UKG
EIP	Environmental Issues Plan	UKG
eirp	effective isotropically radiated power or equivalent isotropically radiated power. (FED-STD-1037B)	7085
EIRP	Effective Isotropic Radiated Power	UKG, 4586
EIS	Environmental Impact Statement	UKG
EKD	Electronic Key Distribution	UKG

Term	Meaning	Source
el	Elevation (FED-STD-1037B)	7085
EL	Erector Launcher	ATP-47
Electromagnetic Compatibility	The ability of all electronic/electric equipment, systems and subsystems to operate in their intended operational environments without suffering or causing unacceptable degradation because of electromagnetic radiation or response.	4586
Electromagnetic Spectrum	The range of frequencies of electromagnetic radiation from zero to infinity.	4586
Electronic Warfare	Military action involving the use of electromagnetic energy to determine, exploit, reduce or prevent hostile use of the electromagnetic spectrum and action which retains friendly use of the electromagnetic spectrum. Also called EW.	4586
Electronics Intelligence	Technical and intelligence information derived from foreign non-communications electromagnetic radiation emanating from other than nuclear detonations or radioactive sources. Also called ELINT.	4586
Electro-optic Coefficient	A measure of the change in the refractive index of a material resulting from a change in an applied high electric field. Typical values are a few hundredths of a percent for applied fields of 20 volts per centimetre	UKG
Electro-optic Effect	The change in refractive index of a material caused by an applied electric field. Pockels effect is the electro-optic effect where the change in refractive index has a linear dependence on the applied electric field. The Kerr effect is the electro-optic effect where the change in refractive index is proportional to the square of the applied electric field	UKG
Electro-optical Detector	A component that detects radiation by the effect of light in generating an electrical signal	UKG
Element	The smallest definable sensitive area of the detector array of a sensor. A sensor element produces an output representing the detected energy from a scene element within one single wavelength band to which the sensor is sensitive. The term element shall be associated with one layer of information for a certain sensor image. Pixels are made from samples; Samples are made from elements. Pixel size \geq Sample size. Sample size \geq Element size	7023
ELINT	Electronic Intelligence	UKG, 4586
ELMC	Electrical Load Management Centres	UKG
ELO	Extremely Low Observable	UKG
ELT	Electronic Light Table	UKG
ELV	Expendable Launch Vehicle	UKG
EM	Electromagnetic	UKG
EMC	Electro-Magnetic Compatibility	UKG, 4586, 7085
EMCCP	Electro-Magnetic Compatibility Control Plan	UKG
EMCON	Emission Control	UKG, 4586
EMD	Electromagnetic Manufacturing Development	UKG
EMH	Electro-Magnetic Hazards	UKG
EMI	Electro-Magnetic Interference	UKG, 4586
Emission Spectrum	The spectrum formed by radiation from an emitter	UKG

Term	Meaning	Source
Emissivity	The ratio of the radiance of an object to the radiance emitted by a blackbody at the same temperature and at the same wavelength	UKG
EMP	Electromagnetic Pulse	UKG
EMR	Extra Mural Research	UKG
EMS	Electromagnetic Spectrum	UKG
Encode	Encoded Value	7023
ENCRYP	Encryption	4545
Encrypt	To convert plain text into unintelligible form by means of a cryptosystem. (FED-STD-1037B)	7085
Eng Tech Av	Engineering Technician Avionics	UKG
Engineering Guidelines	Engineering Guidelines represent well-defined, informative engineering principals. Engineering Guidelines are not mandated.	4609
Engr	Engineer	UKG
Entity	An (N)-entity is a constituent of an (N)-Subsystem in an (N)-layer in an OSI model. Its type is defined by the specific set of functions it can perform but in actual communication a specific invocation is used called an (N)-entity instance. An (N)-entity may be software (a process) or hardware (for example, a specific chip). <u>Note:</u> there appears to be no definition of Entity in OSI recommendations.	7085
EO	Electro-optical	ATP-47, UKG, 4586, 4545, 4609, 7023, 7085
E-O sensor	Sensor responding to electromagnetic radiation in the visual range (and sometimes also in the IR range) with an electrical output. <u>Note:</u> "electro-optical" as a synonym for "optoelectronic" is deprecated by FED-STD-1037B. E-O should be confined to effects where an electro-magnetic wave interacts with an electric field such as Pockels and Kerr effects. However, "E-O sensor" is accepted in the reconnaissance field while Optoelectronic sensor is not.	7085
EO/IR	Electro-optical/Infrared	UKG, 4586, 4609
EOB	Electronic Order of Battle	UKG, 4586
EOCM	Electro-Optic Countermeasures	UKG
EOI	End Of Image	7023
EOLOROP	Electro Optical Long Range Optical	UKG
EOPM	Electro Optic Protection Measures	UKG
EP	1) Electronic Protection 2) External pilot	1) UKG 2) 4586
EPA	Environmental Protection Act 1990	UKG
EPAD	Electrically Powered Actuation Device	UKG
Ephemeris Data	Sensor location, altitude and attitude data (eg. recorded on tape). There can be a time delay between this recorded information and the appropriately calculated image auxillary data.	UKG
EPM	Electronic Protection Measures (now replacing ECCM acronym)	UKG, 4586
EPO	Embryonic Project Office	UKG
EPROM	Electrically Programmable Read Only Memory	UKG
EPU	Emergency Power Unit	UKG

Term	Meaning	Source
ER	1) Electronic Reconnaissance 2) ERror	1) UKG 2) 7085
ERASER	Enhanced Recognition and Sensing Radar	UKG
ERDAS Imagine	A COTS image processing and GIS package.	UKG
ERINT	Extended Range Interceptor	UKG
ERO	Extended Range Ordnance	UKG
ERP	1) Effective Radiated Power 2) Earth Referenced Point	1) UKG 2) 4607
Errata Sheet	A change control technique that allows changes to be compiled as approved and published for the user community without a formal change to the document. Generally, changes are added to the errata sheet until sufficient changes are approved to warrant a revision to the document.	AEDP-2
Error Correction	The use of mathematically related check data, recorded with the digital data, to derive the precise location and enable the correction of errors in the digital data.	7024
ERS	Emergency Recovery System	UKG, 4586
ERUAV	Extended Range Unmanned Air Vehicle	UKG
ERUMA	Extended Range Unmanned Aircraft	UKG
ES	1) Electronic Surveillance 2) Equipment Support	UKG
ESAD	Electronic Safe and Arm Device	UKG
ESAI	Expanded Situational Awareness Insertion	UKG
ESC	Electronic Systems Centre (USAF)	UKG
ESEX	Electric Propulsion Space Experiment	UKG
ESM	1) Electronic Support Measures 2) Electronic Surveillance Measures	1&2) UKG 1) 4586
ESR	Enhanced Surveillance Radar	UKG
ESRI	Environmental Systems Research Institute Inc.	UKG
ESTC	Explosives Storage and Transportation Committee	UKG
ETA	Estimated Time of Arrival	UKG, 4586
ETD	Electronic Transfer Device	UKG
ETI	Elapsed Time Indicator	UKG
ETR	1) Enabling Technologies Report 2) European Telecommunications Report	1) UKG, 2) 4609
ETRAC	Enhanced Tactical Radar Correlator - system to process and exploit ASARS2 data	UKG, CASH
ETRACS	Enhanced Tactical Radar Correlator System	UKG, 4586
EUAV	Endurance Uninhabited Air Vehicle	UKG
eV	Electronvolt	UKG
EW	1) Electronic Warfare 2) Early Warning	1&2) ATP-47 1) UKG, 4586
EWMS	Electronic Warfare Management System	ATP-47
EWO	Electronic Warfare Officer (backseater)	UKG
EX	NATO Format for the Representation of AGS Pre-Exploitation Data Types	4607
Excitation Energy	The difference between the energy levels of an atom in its excited quantum state and in its ground state	UKG
Excited State	A stationary energy state of an ion, atom, or molecule, above its ground state	UKG

Term	Meaning	Source
Exercise	A military maneuver or simulated wartime operation involving planning, preparation, and execution. It is carried out for the purpose of training and evaluation. It may be a combined, joint, or single Service exercise, depending on participating organizations.	4586
Extended Character Set – Alphanumeric (ECS-A)	A subset of the Extended Character Set (ECS). Valid ECS-A character codes range from 0x20 to 0x7E, and 0xA0 to 0xFF. Line Feed (0x0A), Form Feed (0x0C) and Carriage Return (0x0D) are not valid ECS-A characters. As an interim measure, because of inconsistencies between standards, it is strongly advised that character codes ranging from 0xA0 to 0xFF should never be used. Therefore, the use of ECS-A characters should be restricted to its BCS-A Subset.	4545
Extended Character Set (ECS)	A set of 1-byte encoded characters. Valid ECS character codes range from 0x20 to 0x7E, and 0xA0 to 0xFF, as well as Line Feed (0x0A), Form Feed (0x0C) and Carriage Return(0x0D). The ECS characters are described in Table C-3-1. As an interim measure, because of inconsistencies between standards, it is strongly advised that character codes ranging from 0xA0 to 0xFF should never be used. Therefore, the use of ECS characters should be restricted to its BCS Subset.	4545
Extended Character Set (ECS) Space	See BCS Space definition.	4545
F		
f	Focal length	UKG
F	Frequency	7085
F, f	Format	7085
F/O	Fibre-Optic	UKG
FAA	Federal Aviation Administration	UKG
FAC	Forward Air Controller	ATP-47, UKG
Facilities	The property assets specifically required to support the system. Includes facilities for training, equipment storage and garaging, maintenance, contractor, ammunition storage, mobile workshop storage, classified storage, troop housing, fuels and lubricant storage, and special requirements.	UKG
FADEC	Full Authority Digital Engine Control	UKG
Fail soft	Fail soft is a system capability which allows contained system operations in a degraded mode rather than catastrophic failure in the event of any single malfunction.	4586
FANS	Future Area Navigation System	UKG, 4586
Far Infrared	Part of the infrared spectrum between infrared and microwave wavelengths, and having wavelength from about 30 to 1,000 micrometres	UKG
FAT	Feature Aided Tracking	4607
FATDS	Field Artillery Tactical Data Systems	UKG, 4586
FATE	Future Aircraft Technology Enhancement	UKG
FBL	Fly by Light	UKG
FBMS	Formation Battle Management System	UKG
FBW	Fly by Wire	UKG

Term	Meaning	Source
fc	Foot candle	UKG
FC	Fibre Channel	4575
FC-AL	Fibre Channel Arbitrated Loop	UKG, 4575
FCBA	Future Carrier-borne Aircraft	UKG
FCC	Federal Communications Commission	4609, UKG
FCE	Forward Control Element	UKG
F-Centre	The colour centre in the alkali halides, which produces laser emission	UKG
FCLV	Future Command Liaison Vehicle	UKG
FC-PH	Fibre Channel Physical and Signaling Interface	4575
FC-PH-2	Fibre Channel Physical and Signaling Interface-2	4575
FC-PH-3	Fibre Channel Physical and Signaling Interface-3	4575
FC-PLDA	Fibre Channel Private Loop Direct Attach	4575
FCR	Fire Control Radar	UKG
FCS	1) Formation Communications System 2) Flight Control System	UKG
FD	Force Development	UKG
FDDI	Fibre Distributed Data Interface	UKG, 4586, CASH
FEA	Finite Element Analysis	UKG
FEBA	Forward Edge of the Battle Area	UKG, 4586
FEC	Forward Error Correction	7085
FEL	Free Electron Laser	UKG
FFT	Fast Fourier Transform	UKG
FH	Frequency Hopping	UKG, 4586, 7085
FHSS	Frequency Hopping Spread Spectrum	7085
Fibre-optic Twister	An objective lens inverts the image of the scene. It is therefore necessary to correct the orientation of the image before it reaches the eyepiece. This can be achieved with a fibre-optic twister which is a short bundle of optical fibres twisted around its own axis by 180°	UKG
Field	1) Elementary set of relevant data. 2) (picture) An interleaved part of a frame, e.g. a standard TV frame is made up of two fields. Not all frames use fields.	1) 4545 2) 7023
Field Curvature Aberration	Aberration caused by the focused image lying on a spherical surface instead of being flat	UKG
Field of view (FOV)	The area of coverage of a specific sensor. Usually stated in angular dimensions.	7023
FIFV	Future Infantry Fighting Vehicle	UKG
FILOU	Film Observation Unit	ATP-47
FIM	Fault Isolation Manual	UKG
FIPS PUB	Federal Information Processing Standard Publication	4545
FISINT	Foreign Instrumentation Signals Intelligence	UKG
FIST	Fused Imagery Simulation Test Bed	UKG
FISTA	Flying Infrared Signatures Technology Aircraft	UKG
F-Kill	Firepower Destruction	ATP-47
FL	1. File Length 2. Forward Looking infrared	4545
FLA	Future Large Aircraft	UKG
FLASER	Forward Looking Infrared Laser Radar	UKG

Term	Meaning	Source
Flashlamp-Pumped Dye	A pulsed dye laser in which the excitation energy is Laser provided by a flashlamp. Output is tunable typically from 340nm to 940nm, with 0.2 to 4µs pulses, 0.05 to 50J	UKG
FLEX	Force Level Execution	UKG
FLIR	Forward Looking Infrared	UKG, 4586, 4609
FLOT	Forward Line of Own Troops	UKG, 4586
FLUH	Future Light Utility Helicopter	UKG
Fluorescence	The emission of light or electromagnetic radiation by a material, resulting from the absorption of radiation of shorter wavelengths, and where the emission continues only as long as the stimulus producing it is present	UKG
Flying Lead	For the NADSI application, a cable that is attached to the ground station at one end and has a NADSI connector on the other. For the NADSI application it connects the NADSI interface to a ground system	4575
Flying Spot Scanner	An instrument which scans sections of a field of view, with a small bright spot, and transforms the viewed scene into a series of electrical signals	UKG
FM	Frequency Modulation (FED-STD-1037B)	7085
FMC	Forward Motion Compensation	UKG
FMECA	<u>Failure Mode, Effects and Criticality Analysis</u> An analysis to identify potential design weaknesses through systematic, documented consideration of the following: all likely ways in which a component or equipment can fail; causes for each failure mode; and the effects of each failure (which may differ for each mission phase).	UKG
FMF	Forward Maintenance Facility	UKG
FMIB	Management Information Base	UKG
FM _r	Figure of Merit of receiving terminal	7085
FMRAAM	Future Medium Range Air-to-Air Missile	UKG
FMS	1) Flight Management System 2) Foreign Military Sales	1) UKG 2) 4586
FOAEW	Future Organic AEW	UKG
FOAS	Future Offensive Air System	UKG
FOB	Forward Operating Base	UKG
FOC	Full Operational Capability	UKG
FOD	Foreign Object Damage	UKG
FOFA	Follow on Forces Attack	UKG
FOG	Fibre Optic Gyro	UKG
FOL	Forward Operating Location	UKG, 4586
FOO	Forward Observation Officer	UKG, 4586
FOPEN	Foliage Penetration	UKG
FOR	Field Of Regard	UKG
Format	Arrangement of bits or characters within a group, such as a word, message, or language. (FED-STD-1037B Definition 1)	7085
Format Layer	Provides a service to the imagery layer by transforming inputs from and to imagery entities to and from a common syntax for transmission. Compare presentation layer in CCITT X.200, para 7.2.	7085
Formation	Division or independent brigade sized formation.	UKG

Term	Meaning	Source
Forward Error Correction	A system of error control for data transmission wherein the receiving device has the capability to detect and correct any character or code block that contains fewer than a predetermined number of symbols in error. (FED-STD-1037B)	7085
Forward Line of Own Troops	A line which indicates the most forward positions of friendly forces in any kind of military operation at a specific time. Also called FLOT.	4586
FOV (also FoV)	Field of View	UKG, 4586, 4609, 7023
fp	Focal plane	UKG
FP	Fingerprints	4545
FPA	Focal Plane Array	UKG
FPGA	Field Programmable Gated Array	UKG
FPS	Frames Per Second	4609, UKG
FR	Formation Reconnaissance	UKG
FRAG	Fragmentary Order	7023
Fragmentary order (FRAG)	An abbreviated form of an "Operations (OPS) Order", generally more specific and time sensitive.	7023
Frame	1) An image component. Its structure is defined in the Sync Hierarchy and Image Build Data Table. 2) A scene. 3) Set of beam positions across elevation bars that cover a given area of interest (AOI). 4) See Image Frame	1) 7023 2&3) 4607 4) 7085
Frame Scan	A form of scanning in which one sensor sampling period covers a two dimensional field of view, generally embracing some repetition and partial over-lap.	7085
Free-Electron Laser	A laser that produces stimulated emission by passing a beam of free electrons, that is electrons not bound to an atom or molecule, through an undulator. The electrons radiate when they are oscillated by the applied field. The undulator creates an alternating magnetic field, causing the electrons to oscillate and release radiation. The current generation of free electron lasers have operated in the infrared but they are theoretically capable of being tuned over a wide range of wavelengths from soft x-ray to millimetre wave. There is the potential of yielding laser beams of very high power levels	UKG
Frequency bands	(NATO Standard frequency bands).	4586
Frequency Modulation	The form of angle modulation in which the instantaneous frequency of a sine wave carrier is caused to depart from the carrier frequency by an amount proportional to the instantaneous value of the modulating signal (FED-STD-1037B).	7085
Frequency Shift Keying	A form of frequency modulation in which the modulating signal shifts the output frequency between predetermined values. (FED-STD-1037B)	7085
FSCLAS	File Security Classification	4545
FSII	Fuel System Icing Inhibitor (MIL-I-27686)	UKG
FSK	Frequency Shift Keying	UKG, 4586, 7085
FSL	Future Systems Laboratory	UKG
FSPL	Free Space Path Loss	UKG, 4586
FSR	Functional Staff Requirement	UKG

Term	Meaning	Source
FSTA	Future Strategic Transport Aircraft	UKG
FSU	Former Soviet Union	UKG
Ft	Flight Termination	4586
FTA	Fault Tree Analysis	UKG
FTITLE	File Title	4545
FTP	File Transfer Protocol	UKG, 4586, 4609, CASH
FTS	Fourier Transform Spectrometer	UKG
FTTCS	Future Tactical Trunk Communications System	UKG
Function (N)-Function fusion	A part of the activity of (N)-entities. (X.200. para 5.2.1.8.) The combining of information from a range of intelligence sources in a meaningful manner. There are three levels of fusion: Image level fusion, Feature level fusion and Decision level fusion. Image level is the fusion of two images, pixel for pixel. Feature level is the fusion of information concerning a bridge, convoy etc. Decision level is the fusion of commands or requests to form a decision.	UKG
FW	Fixed Wing	UKG
FWHM	Full Width Half Maximum	UKG
FWV	Fixed Wing Vehicle	UKG
FY	Financial Year	UKG
G		
G/G	Ground-to-Ground	UKG, 4586
G1	G1 Army Staff - Personnel manning, welfare & medical services. Military Strategy	UKG
G2	G2 Army Staff - Intelligence and Security	UKG
G3	G3 Army Staff - Current Operations and Movement (Ops), Forward Planning & co-ordination of combat support, Organisations and Deployments, public information, NBC, targeting policy, C2W including OPSEC, deception and PYSOPS.	UKG
G4	G4 Army Staff - Logistic & equipment support. NATO medical	UKG
G5	G5 Army Staff - Civil - military relations	UKG
G6	G6 Army Staff - Communication and Information systems including electromagnetic advice. Largely carried out by G3 comms.	UKG
GA	Ground Attack	UKG
GaAs	Gallium Arsenide	UKG
Galois field	A mathematical field containing a finite number of elements in which algebraic operations may be performed. The number of field elements is generally written as an argument in parentheses, e.g. GF(256).	7024
Gas-Transport Laser	A gas laser where the gas mixture is not exhausted to the atmosphere but is recycled. An advantage of the gas transport laser is that it requires no continuous gas supply. An example is the carbon dioxide axial or transverse gas flow laser	UKG
Gb	1) Gigabyte 2) Gigabits	1) 4586 2) 4609
GB	Gigabyte	4609
GBAD	Ground-Based Air Defence	UKG
GBL	Ground-Based Laser	UKG

Term	Meaning	Source
Gbps	Giga bits per second	UKG
GBS	1) Global Broadcast System 2) Global Broadcast Service	1) UKG, CASH 2) 4586, 4609
GBU	Guided Bomb Unit	UKG
GCCS	Global Command and Control System	UKG, 4586, CASH
GCE	Ground Combat Element	4586
GCI	Ground Controlled Interception	ATP-47
GCS	1) Ground Control Station 2) Ground Control System	1&2) UKG 2) 4586
GCU	Ground Control Unit	4586
GDIP	General Defence Intelligence Program	UKG
GDT	Ground Data Terminal	UKG, 4586
GEC	General Electric Company	UKG
GEE	Ground Exploitation Equipment	UKG
Gen Tech E	General Technician Electrical	UKG
Gen Tech GSE	General Technician Ground Support Equipment	UKG
generic	A general purpose role model that can spawn off different standards.	UKG
GENSER	General Service	4586
GEO	Geosynchronous Orbit	UKG
Geopositional accuracy	Geopositional Accuracy is the accuracy in terms of latitude and longitude, which the MUAUV system can report the position of tracks reported by AV payloads to the ships combat system.	4586
GEOS	Geosynchronous Earth Observation System	UKG
GEOSDE	Geospatial Support Data Extensions	4545
GFE	Government Furnished Equipment	UKG
GFF	Government Furnished Facilities	UKG
GFI	Government Furnished Information	UKG
GFS	Government Furnished Services	UKG
GGS	GPS Guidance System	UKG
GH	Global Hawk	4607
GHz	Giga Hertz	UKG
GIAS	Geospatial & Imagery Access Services	4586, 4559
GIEF	Ground Imagery Exploitation Facility (Canberra)	UKG
GIFT	Generic Information Fusion Terminal. A research programme aimed at providing prototype all-source intelligence.	UKG
Gimbals	A mechanical structure that enables a sensor to reposition itself relative to the platform.	7023
GIS	Geographic Information System	UKG, 4607
GKN	General Key Management	UKG
GLO	Ground Liason Officer	UKG
GLONASS	Global Navigation Satellite System	UKG
GMESC	GEC Marconi Electronic Systems Corporation	UKG
GMLRS	Guided Multiple Launch Rocket System	UKG
GMT	Universal Time Coordinated (formerly Greenwich-Meridian Time); also abbreviated UTC	UKG, 4607
GMTI	1) Ground Moving Target Indication 2) Ground Moving Target Indicator	1) UKG 2) 4586 1&2) 4607
GOTS	Government Off The Shelf	UKG, 4586, 4609, CASH

Term	Meaning	Source
GPR	Ground Penetrating Radar	UKG
GPS	Global Positioning System. A satellite-based global navigation system providing WGS84 co-ordinate positions.	UKG, 4586, 7023, 4607, 4609
GPS/AN	Global Positioning System Auto Navigation	4586
GPTE	General Purpose Test Equipment	UKG
GPTRP	General Purpose Tactical Reconnaissance Pod	UKG
GR1A	A GR1 Tornado fast jet aircraft fitted with a reconnaissance unit. For AGS this refers to a format of imagery.	UKG
Graphic	Graphic data is used in the NSIF to store two-dimensional information represented as a Computer Graphics Metafile (CGM). Each Graphic Segment (GS) consists of a Graphic Subheader and a Data Field containing the graphic data. A graphic may be black and white, grey scale, or colour. Examples of graphics are circles, ellipses, rectangles, arrows, lines, triangles, logos, unit designators, object designators (ships, aircraft), text, special characters, or a combination thereof. A graphic is stored as a distinct unit in the NSIF File allowing it to be manipulated and displayed non-destructively relative to the images and other graphics in the NSIF File. This standard does not preclude the use of n-dimensional graphics when future standards are developed.	4545
GRCA	Ground Referenced Coverage Area	4607
GRD	Ground Resolved Distance (2 pixels are required to resolve – Johnson criteria)	UKG
Grey Scale	An optical pattern consisting of discrete steps or shades of grey between black and white.	4545
Ground State/Ground Level	The lowest energy level of an atom. All other states are excited states. An atom in the ground state is not capable of emitting radiation	UKG
GRPF	Ground Relay & Processing Facility	UKG
GS	1) Ground Segment 2) Ground Station 3) General Support 4) Graphic Segment	1-3) UKG 4) 4545
GSD	Ground Sampled Distance (Pixel footprint on ground – check not GRD)	UKG
GSE	1) Ground Support Equipment 2) Government Supplied Equipment	1) UKG 1&2) 4586
GSM	Ground Station Module (Earlier version of CGS)	UKG, 4607
GSM/CGS	Ground Station Module/Common Ground Station	UKG, 4586
GSMC	Geospatial Systems Management Committee	UKG
GSS	1) Ground Support System 2) Ground/Surface Systems	1) UKG 2) CASH
GTI	General Trainability Index	UKG
GUI	Graphical User Interface	UKG, 4586, 4607
GW	Guided Weapon	UKG
H		
h	Planck's constant	UKG
HAARP	High Frequency Active Auroral Research Program	UKG
HAE	High Altitude Endurance	UKG
HALE	High Altitude, Long Endurance	UKG, 4586

Term	Meaning	Source
Half Duplex (Data Link)	That mode of operation in which communication between two terminals occurs in either direction, but in only one direction at a time (FED-STD-1037B).	7085
HAM	High Altitude Modular	UKG
HARM	High-Speed Anti-Radiation Missile	UKG
HAS	Hardened Aircraft Shelter	UKG
HASAWA	Health And Safety At Work Act 1974	UKG
HAZMAT	Hazardous Material	UKG, 4586
HC	HardCopy	UKG
HCDR	1) High Capacity Data Radio 2) High Capacity Digital Radio	UKG
HCF	High Cycle Fatigue	UKG
HCI	1) Human Computer Interaction 2) Human Computer Interface	1&2) UKG 1) 4586 2) 4607
HCISM	HCI Specific Module	4586
HD	1) Hard Disk 2) High Definition 3) Half Duplex	1) UKG 2) UKG, 4609 3) 7085
HDBK	Handbook	4586
HDERU	Heavy Duty Explosive Release Unit	UKG
HDTV	High Definition Television	4609, UKG
Header	A 32 byte table preceding a data file. Its contents define the structure of the associated data file.	7023
HEDM	High Energy Density Matter	UKG
HEL	High Energy Laser	UKG
helical (data) record	The magnetization pattern or associated information recorded into all possible helical tracks.	7024
Helical Digital Recorder	A recorder/reproducer based on a video recorder using an 8mm type P-6 or E-6 cassette to record and/or reproduce digital data.	7024
helical track	An area on tape, 170 mm long and 45 µm wide, inclined at a small angle to the tape's reference edge, whose centerline lies completely within a helical track tolerance zone.	7024
HELLAS	HEL Lethality Assessment Suite	UKG
Hex	Hexadecimal	7023
hexadecimal	Numbers in hexadecimal format are numbers to the base 16 and are shown with a subscript 16. (e.g. Decimal 10 is represented as A ₁₆ in hexadecimal format.)	7024
HF	1) High Frequency (1 – 30 MHz) 2) Human Factors. Studies of HCI and the ergonomic layout of cabins & controls etc. for efficient use by humans.	1&2) UKG 1) 4586
HFET	Hetero-junction Field Effect Transistor	UKG
HFI	Human Factors Integration	UKG
HFOV	Horizontal Field of View	UKG
HIC	High Intensity Conflict	UKG
HIDL	High Integrity Data Link	UKG, 4586
HiMAT	Highly Manoeuvrable Aircraft Technology	UKG
HiMaTE	High Mach Turbine Engine	UKG
HiPPI	High Performance Parallel Interface	UKG, CASH
HIPRA	High Speed Digital Processor Architecture	UKG

Term	Meaning	Source
HIRF	High Intensity Radiation Fields	UKG
HIRTA	High Intensity Radio Transmission Areas	UKG
HITL	Human In The Loop	UKG, 4607
HL	1) High Latency 2) Hand Launched 3) NSIF File Header Length 4) High level	1) UKG 2) 4586 3) 4545 4) 4609
HLA	High Level Architecture (see DIS)	4586, 4607
HMI	Human Machine Interface	UKG, 4586
HMIP	Her Majesty's Inspectorate of Pollution	UKG
HMMWV	High Mobility Multipurpose Wheeled Vehicle	UKG, 4586, CASH
HOBA	High Off-Boresight Angle	UKG
HoE	Home on Emitter	UKG
HOE	Holographic Optical Element	UKG
HoJ	Home on Jam	UKG
home track ID	A recorder manufacturer defined field used to identify the scanner head recording the first track of a track set.	7024
Hop/s	(Frequency) HOPping Rate	7085
HORIZON	Hélicoptère d'Observation Radar et d'Investigation sur ZONE; French GMTI Helicopter	UKG, 4607
Horizon Detector	An infrared device in satellites and missiles at high altitudes to determine a thermal horizon for the Earth rather than the visible horizon which cannot be clearly discerned. The detector scans the infrared radiation of the earth and the thermal horizon is located at the point where the infrared emission is sharply reduced	UKG
HOTAS	Hands On Throttle And Stick	UKG
HPC	High Pressure Compressor	UKG
HPM	High Power Microwave	UKG
HPSLT	High Power Semiconductor Laser Technology	UKG
HPT	High Pressure Turbine	UKG
HQ	Headquarters	ATP-47, UKG
HQ AIRCENT	Headquarters Allied Forces Central Europe (NATO)	UKG
HQ II	Havequick two	UKG
HQ/C ²	Headquarters/ Command and Control	UKG
HR	High Resolution Radar	4545
HRMTI	High Resolution MTI	4607
HRR	High Range Resolution	4607
Hrs	Hours	UKG
HS	Hyperspectral	4545
HSAL	High Speed Algebraic Logic	UKG
HSC	Human Systems Centre	UKG
HSI	1) Human System Interface 2) Hyperspectral Imaging 3) Hyper-Spectral Information	1&2) UKG 1) 4607 3) 4586
HSR	High Speed Research	UKG
HSSR	High Speed Solid State Recorder	UKG
HTML	Hyper Text Mark-up Language	UKG, 4586
HTS	High Temperature Superconductivity (or Superconductor)	UKG
HTTP	Hypertext Transport Protocol	UKG, 4586
HUD	Heads Up Display	UKG

Term	Meaning	Source
Human Factors Engineering	The systematic application to system design and engineering of relevant factors concerning human characteristics. These factors include skill capabilities, performance, anthropometric data, biomedical factors, and training implications.	UKG
HUMINT	Human Intelligence	UKG
HUMS	Health and Usage Monitoring System	UKG
HVMT	High Value Mobile Target	UKG
HySTP	Hypersonic Systems Technology Program	UKG
HyTech	Hypersonic Technology	UKG
Hz	Hertz	4609, UKG
HZ	Hertz	4586
I		
I	1) Identification 2) Inphase 3) Imagery	1) UKG 2) 4545 3) 7085
I&W	Indications and Warnings	UKG
I/O	Input/Output	UKG, 4586
IA	1) Image(ry) Analyst 2) International Agreement	1) ATP-47, UKG, CASH 2) 4586
IAA	Image Analyst Assistant	UKG
IACP	International Armaments Cooperation Programs	4586
IADS	Integrated Air Defence System	UKG
IAF	Image Access Facility	CASH
IALVL	Image Attachment Level	4545
IAM	Image Acquisition Module	4586
IAS	1) Intelligence Analysis System 2) Intelligence/Imagery Analysis System	1) UKG 2) 4586
IASS	Image Access Services Specification	CASH
IAW	1) Imagery Analysis Workstation 2) in accordance with	1) UKG 2) 4607
IBC	Intelligent Bandwidth Compression	4607
IBIT	Initiated Built-In Test	UKG
IC	1) Integrated Circuit 2) Intelligence Community 3) Image Compression	1) UKG 2) 4609, UKG 3) 4545
ICAO	International Civil Aviation Organization	UKG, 4586
ICAT	Image Category	4545
ICBM	Intercontinental Ballistic Missile	UKG
ICD	Interface Control Document	UKG, 4607
ICE	Integrated Connection Environment	UKG
ICER	Industry Council for Electronic Equipment Recycling	UKG
ICNIS	Integrated Communication	UKG
ICON	Imagery Communications and Operational Node - a US comms terminal.	UKG
ICORDS	Image Coordinate Representation	4545
ICS	Image Communication Service	4586
ICTP	Transfer Information Collection and Processing	UKG
ID	1) Identification 2) Identifier 3) IDentity, IDentificator	1) UKG, 4586 2) 4545 3) 7085
ID1	Instrumentation Data 1	UKG
IDASS	Intelligence Data Analysis System for Spacecraft	UKG

Term	Meaning	Source
IDB	1) Intelligence DataBase 2) Integrated Data Base	1) UKG 2) 4586
IDD	Interface Design Description	UKG, 4586
Identification	1) The ability to place the identity of a feature or object on imagery as a precise type, i.e. T-54 tank, MiG-21J. 2) The process of establishing the specific type of feature of interest (e.g. Hind, Gazelle, EH101 etc) 3) The indication, by any act or means, of your own friendly character or individuality. (JSP 110) 4) In imagery interpretation, the discrimination between objects within a particular type of class. (JSP 110).	1) ATP-47 2-4) UKG
Identification Pattern	Specific bit patterns used to identify sectors and array rows	7024
IDF	Imagery Dissemination Facility	CASH
IDHS	Intelligence Data Handling System	UKG
IDL	1) Improved Data Link 2) Interoperable ground Data Link system 3) Interface Definition Language	1&2) UKG 3) 4586, CASH
IDLVL	Image Display Level	4545
IDM	Improved Data Modem	UKG
IDT	Integrated Data Terminal	4586
IEA	Information Exchange Agreements	4586
IEC	International Electrotechnical Commission	UKG, 4586, 4545, 4609, 7085
IEEE	Institute of Electrical and Electronic Engineers	UKG, 4586, 4545, 4609
IER	Information Exchange Requirements	UKG, 4586
IES	Imagery Exploitation System	UKG, 4586
IESS	Imagery Exploitation Support System	CASH
IETM	Interactive Electronic Technical Manual	UKG
IETP	Interactive Electronic Technical Publication	UKG
IEW	Intelligence and Electronic Warfare	4586
IF	1) Image Freeze 2) Intermediate Frequency	UKG
IFF	Identification Friend or Foe	UKG, 4586
IFFN	Identify as Friend, Foe, or Neutral	4607
IFOR	Implementation Force (NATO)	UKG
IFOV	Instantaneous Field Of View	UKG
IFP	Image Formation Processor	UKG
IFR	Instrument Flight Rules	UKG
IFREP	In Flight REPort	UKG
IFS	Indirect Fire Support	UKG
IFSAR	Interferometric Synthetic Aperture Radar	UKG
IGEOLO	Image Geographic Location	4545
IHRPT	Integrated High Payoff Rocket Propulsion Technology	UKG
IHPTET	Integrated High Performance Turbine Engine Technology	UKG
II	Image Intensification	UKG
IIR	1) Imaging Infrared 2) Image Interpretation Report	1) UKG 2) 4586
IIRS	1) Imagery Interpretability Rules 2) Imaging Infrared Sensor	UKG
ILD	Injection Laser Diode	UKG

Term	Meaning	Source
ILOC	Image Location	4545
ILS	1) Instrument Landing System 2) Integrated Logistic Support	1&2) UKG 2) 4586
ILS Alternatives/ Trade-off	The determination of the optimum balance between system characteristics (cost, schedule, performance and supportability). Analysis and assessment of support requirements for the identified alternative system designs, using established lists of design criteria, utility curves and criteria weights. Supporting data will come from comparative analysis, technological opportunities, use studies, field visits, standardisation requirements, functional and military requirements, constraints, maintenance and operational approaches.	UKG
ILSP	Integrated Logistic Support Plan	UKG
IMA	Integrated Modular Avionics	UKG
Image	A two-dimensional rectangular array of pixels indexed by row and column.	4586, 4545, 4559, 4609
Image Associated Data	Data which is needed to properly interpret and render pixels; data which is used to annotate imagery such as text, graphics, etc.; data which describes the imagery such as textual reports; and data which support the exploitation of imagery.	4586
Image Codes	For a vector quantized image, values in the image data section that are used to retrieve the v x h kernels from the image code book.	4545
Image Frame	The organization of image data generated in one sensor sampling period. The image frame format is dependent on how the sensor scans the image space. (STANAG 7023)	7085
Imagery	1) Collectively, the representations of objects reproduced electronically or optically on film, electronic display devices, or other media. 2) A likeness or representation of any natural or man-made feature or related object or activity. Collectively, the representations of objects reproduced electronically or by optical means on film, electronic display devices, or other media.	1) 4586, 4545 2) 4609
Imagery Associated Data	Data which is needed to properly interpret and render pixels; data which is used to annotate imagery such as text, graphics, etc.; data which describes the imagery such as textual reports; and data which support the exploitation of imagery.	4545, 4559
Imagery Intelligence	Intelligence information derived from the exploitation of collection by visual photography, infrared sensors, lasers, electro-optics, and radar sensors such as synthetic aperture radar wherein images of objects are reproduced optically or electronically on film, electronic devices, or other media. Also called IMINT.	4586
Imagery Layer	The layer containing entities concerned with acquiring, recording, and displaying imagery and with associated commands and control. The data link exists to provide services to such entities.	7085
IMC	Image Motion Compensation	ATP-47
IMDSPO	Integrated Maintenance Data SPO	UKG

Term	Meaning	Source
IMGR	Image Manager	4586
IMINT	Imagery Intelligence	ATP-47, UKG, 4586, 4609, CASH
IMIS	Integrated Maintenance Information System	UKG
Immed	Immediate Value	7023
IMODE	Image Mode	4545
Impl	Implementation	4586
IMS	Inertial Motion Sensor	UKG
IMTS	Image Manager	4586
IMU	Inertial Measurement Unit	UKG
INCA	Intelligence and Command Information System Architecture	UKG
Incoherent	A description of radiation where there is no constant phase relationship between two waves	UKG
Indication (primitive)	A primitive issued by a service-provider, either: to invoke some procedure; or, to indicate that a procedure has been invoked by the service-user at the peer service-access-point. (X.210)	7085
Indium Antimonide	A semiconductor material used as an infrared detector for light of wavelength 1 to 6 μ m	UKG
Inf	Infantry	UKG
INFLIGHTREP	In Flight Report	ATP-47
Information Requester	A person who requests information from the mission but who was not responsible for requesting or planning the mission.	7023
INFOSEC	Information Security	UKG
Infrared	The section of the electromagnetic spectrum with wavelengths between about 0.75 and 1,000 μ m.	UKG
Infrared Jamming	A countermeasure system used against infrared sensors such as in a heat-seeking missile to disable the sensors and reduce their effectiveness. The normal method of infrared jamming involves emitting high - power infrared radiation in order to overload the sensors	UKG
Initial Parameters	The values of the Variable Parameters set by mission planning for first establishment of a link.	7085
inner code	Of two sequential error detection and correction codes, the first encountered on playback from tape.	7024
Inner Code Blocks	The block (horizontal row) consists of 153 bytes of digital data followed by eight bytes of inner code check data for each row of each ECC array	7024
InP	Indium Phosphide	UKG
INS	Inertial Navigation System	UKG, 4586, 7023
InSb	Indium Antimonide	UKG
INT	Intelligence	UKG, CASH
INT CORPS	Intelligence Corps	UKG

Term	Meaning	Source
Integrated Logistical Support (ILS)	A composite of all the support considerations necessary to assure the effective and economical support of a system for its life cycle. It is an integral part of all other aspects of system acquisition and operation. ILS is characterized by harmony and coherence among all the logistic elements. The principal elements of ILS include: (a) maintenance planning; (b) supply support, (c) technical data; (d) facilities; (e) manpower and personnel; (f) training and training support; (g) support equipment; (h) computer resources support; (i) packaging, handling, storage and transportation; (j) design interface.	4586
Integration	Refers to combining segments – not systems – and ensuring that the segments work correctly within the environment; do not adversely impact one another; and conform to standards. Integration does not imply interoperability. It only provides a level of assurance that the system will work as designed.	4586
Intelligence	1) The product resulting from the collection, processing, integration, analysis, evaluation and interpretation of available information concerning foreign countries or areas. 2) The product resulting from the processing of information concerning foreign nations, hostile or potentially hostile forces or elements, or areas of actual or potential operations. The term is also applied to the activity which results in the product and to the organizations engaged in such activity.	1) 4586, 4609 2) AAP-6
intelligence cycle	The sequence of activities whereby information is obtained, assembled, converted into intelligence and made available to users. This sequence comprises the following four phases: •a. Direction - Determination of intelligence requirements, planning the collection effort, issuance of orders and requests to collection agencies and maintenance of a continuous check on the productivity of such agencies. •b. Collection - The exploitation of sources by collection agencies and the delivery of the information obtained to the appropriate processing unit for use in the production of intelligence. •c. Processing - The conversion of information into intelligence through collation, evaluation, analysis, integration and interpretation. •d. Dissemination - The timely conveyance of intelligence, in an appropriate form and by any suitable means, to those who need it.	AAP-6
Interaction	A one or two-way exchange of data among two or more systems/sub-systems.	4586
Interchangeability	A condition which exists when two or more items possess such functional and physical characteristics as to be equivalent in performance and durability, and are capable of being exchanged one for the other without alteration of the items themselves, or of adjoining items, except for adjustment, and without selection for fit and performance.	UKG

Term	Meaning	Source
Interface	<p>1) A concept involving the definition of the interconnection between two equipment items or systems. [In 4545: A concept involving the definition of the interconnection between two pieces of equipment or systems.] The definition includes the type, quantity, and function of the interconnecting circuits and the type, form, and content of signals to be interchanged via those circuits. Mechanical details of plugs, sockets, and pin numbers, etc., may be included within the context of the definition.</p> <p>2) A shared boundary, e.g., the boundary between two subsystems or two devices.</p> <p>3) A boundary or point common to two or more similar or dissimilar command and control systems, subsystems, or other entities against which or at which necessary information flow takes place.</p> <p>4) A boundary or point common to two or more systems or other entities across which useful information flow takes place. (It is implied that useful information flow requires the definition of the interconnection of the systems which enables them to interoperate.)</p> <p>5) The process of interrelating two or more dissimilar circuits or systems.</p> <p>6) The point of interconnection between user terminal equipment and commercial communication-service facilities.</p>	[all] 4586, 4545, 4559, 4609
Interferometer	An instrument that uses the interference of light waves to accurately measure the distances between optical surfaces	UKG
Interlace Scan	Interlace scanning scans from left to right for one line then skips every other line to form a field of the image. The second field is made up of the lines that were skipped in the first field. The combination of two fields constitutes a frame. It should be noted that motion between fields in the frame causes interlace artifacts in the frame and the loss of vertical and temporal resolution.	4609
Interleaving	<p>1) The systematic reordering of data so that originally adjacent bytes are separated, thus reducing the effect of burst errors on the error correcting capability.</p> <p>2) A data-communication technique used in conjunction with error-correcting codes, to reduce the number of undetected errors burst. Note: code symbols are reordered before transmission in such a manner that any two successive code symbols are separated ... in the transmitted sequence.</p>	1) 7024 2) 7085
Interoperability	<p>1) The ability of systems, units or forces to provide services to and accept services from other systems, units or forces and to use the services so exchanged to enable them to operate effectively together.</p> <p>2) The ability of one data link terminal to communicate with another in a different system.</p>	1) UKG, 4586, 4609 1&2) 7085
Interoperability test	A test conducted on two or more implementations that show that when working together, the implementations can correctly function together	AEDP-2

Term	Meaning	Source
INTERPRET	ELINT fusion project	UKG
INU	Inertial Navigation Unit	UKG
IOC	Initial Operational Capability	UKG
IODL	Interoperability and Data Links. Trials Support to MoD(PE) including Links11 & 16 & JTIDS - John Clarke.	UKG
Ion Laser	A laser in which the transition of an electron between two energy levels of an ion results in stimulated emission of radiation. The continuous wave output is in the visible and near-visible range, wavelengths 350 to 800 nm. Neon, argon, krypton and xenon are used in ion lasers	UKG
IP	1) Input Processor 2) Internet Protocol 3) Internal Pilot 4) Intellectual Property	1&2) UKG 2) CASH 2&3) 4586 2&4) 4609
IPA	Image Product Archive	UKG, 4586
IPB	Intelligence Preparation of the Battlefield	UKG, 4586
IPE	Individual Protective Equipment	UKG
IPF	Integrated Processing Facility	UKG, 4586
IPIR	Initial Programmed Interpretation Report	ATP-47
IPL	Image Product Library	UKG, 4586, 4559, 4609 CASH
IPPC	Integrated Pollution Prevention and Control	UKG
IPR	Intellectual Property Rights	UKG
IPS	1) Intelligence Planning Section 2) Interim Planning System 3) Image Print Services	1&2) UKG 3) 4586
IPT	1) Integrated Project Team 2) Integrated Product Team	1) UKG 2) CASH
IPU	Integrated Power Unit	UKG
IPX	NetWare Transport Protocol	4586
IR	Infrared	ATP-47, UKG, 4586, 4545, 4609, 7023, 7085
IR Sensor	Infrared Sensor - one that responds to Infrared electromagnetic radiation (lying between 0.7 micron - long wavelength visible - and 0.1mm - shortest microwave).	7085
IRADS	Infrared Attack & Designation System (F-117)	UKG
IRC	International Research Collaboration	UKG
IRCCD	Infra-Red Charge Coupled Device	UKG
IRCM	Infrared Countermeasures	UKG
IRCS	Infra-Red Cross Section	UKG
IREP	Image Representation	4545
IPEPBANDn	n th Band Representation	4545
IRI	Ionospheric Research Instrument	UKG
IRIG	Inter-Range Instrumentation Group (Time code standards)	UKG
IRLS	Infrared Linescan	ATP-47, UKG, 4586
IRMA	Infrared Modelling and Analysis	UKG
IRR	Integral Rocket Engine	UKG

Term	Meaning	Source
IRS	Interface Requirements Specifications	UKG, 4586
IRST	Infrared Search and Track	UKG, 4586
IS	1) Information System 2) International Standard 3) Image Segment	1) UKG 2&3) 4545
ISA	1) Instrumentation Society of America 2) International Standard Atmosphere 3) Independent Safety Auditor	UKG
ISAR	Inverse Synthetic Aperture Radar	UKG, 4586
ISD	In Service Date	UKG
ISDN	Integrated Services Digital Network	UKG, 4586, 4559, 4609
ISG	Industry Support Group	UKG, 4586
ISI	In-Service Improvement	UKG
ISMC	Imagery Standards Management Committee	UKG
ISO	International Standardisation (Standards) Organisation	UKG, 4586, 4545, 4559, 4609, 7085
ISO/IEC	International Standardization Organization / International Electrotechnical Commission	4575, 7023
Isp	Specific Impulse	UKG
ISP	Integrated Support Plan (Contractor produced document)	UKG
ISR	Intelligence, Surveillance and Reconnaissance	UKG, 4586, 4607, 4609
ISRD	In Service Reliability Demonstration	UKG
ISRIWG	ISR Integration Working Group (under AG IV)	AEDP-2
ISS	Integrated Sensor System	UKG
ISSP	Integrated Supply Support Procedures	UKG
ISTA	Intelligence, Surveillance, and Target Acquisition	UKG
ISTAR	Intelligence, Surveillance, Target Acquisition, and Reconnaissance	UKG
ISTF	Integrated Space Technology Flights	UKG
ISU	In Service Upgrade	UKG
ISUBCATn	n th Band Subcategory	4545
IT	Information Technology	UKG, 4607
ITAR	International Traffic in Arms Regulation	UKG, 4607
ITB	Integrated Test Bed	UKG
ITD	Interim Terrain Data	4607
ITD(A)	Individual Training Directive (Annual)	UKG
ITDP	International Technology Demonstration Programme	UKG, 4586
ITS	Intelligent Tutoring System	UKG
ITSEC	Information Technology SEcurity Criteria	UKG
ITT	Invitation To Tender	UKG
ITU	International Telecommunications Union (new name for CCITT)	UKG, 4586, 4545, 4559, 4609, 7085
ITU-T	Telecommunication part of ITU	7085
IU	Interface Unit	4575
IUAV	Interoperable UAV	UKG, 4586
IVWR	Image Viewer	4586
IXSHD	Image Extended SubHeader Data	4545
J		
J/IST	JSF/Integrated Subsystem Technology	UKG

Term	Meaning	Source
JAA	Joint Aviation Authority	4586
JAC	Joint Analysis Centre	UKG
JARIC	Joint Air Reconnaissance and Intelligence Centre	UKG
JASA	Joint Airborne SIGINT Architecture	4586
JASSM	Joint Air to Surface Stand-off Missile	UKG
JAWS	JDISS Army Work Station	UKG
JBD	Joint Battlespace Digitisation	UKG
JBDI	Joint Battlespace Digitization Initiative	UKG
JBS	Joint Broadcast System	UKG
JCIDO	Joint Combat ID Office	UKG
JCS	1) Joint Chiefs of Staff 2) Joint Command System	UKG
JCSI	Joint Command System Initiative (C2I CIS component of JBD)	UKG
JDAM	Joint Direct Attack Munition	UKG
JDISS	Joint Deployable Intelligence Support System	UKG, 4586
JEM	Jet Engine Modulation	UKG
JES	Joint Environment Scenarios	UKG
JETEC	Joint Expendable Turbine Engine Concepts	UKG
JFAC HQ	Joint Force Air Component Headquarters	UKG
JFACC	Joint Force Air Component Commander	UKG, 4586
JFC	Joint Force Commander	UKG, 4586, 4609
JFCC	Joint Force Component Commander	UKG
JFHQ	Joint Force Headquarters	UKG
JHQ	Joint Headquarters	UKG, 4586
JIC	Joint Intelligence Centre	UKG
JIEO	Joint Interoperability and Engineering Organisation	UKG
JII	Joint Interoperability Interface (document)	UKG, 4586
JIPL	Joint Integrated Prioritised Target List	UKG
JITC	Joint Interoperability Test Command	UKG, 4545
JMCIS	Joint Maritime Command Information System	UKG, 4586
JMF	Joint Message Format	4586
JMPS	Joint Mission Planning System	4586
JMSP	Joint Multispectral Sensor Program	UKG
JMUS	Joint Multiple UAV Systems	4586
JND	Just Noticeable Difference	UKG
JOANNA	Joint Airborne Navigation and Attack	UKG
JOCS	Joint Operational Command System	UKG
Joint Force	A general term applied to a force which is composed of significant elements of the Army, the Navy or the Marine Corps, and the Air Force, or two or more of these services, operating under a single commander authorized to exercise unified command or operational control over joint forces.	4586
JOP	Joint Operations Picture	UKG
JORD	Joint Operational Requirements Document	CASH
JOTS	Joint Operational Tactical System	4586
Joule-Thomson cooling	A cooling technique which uses the expansion of high-pressure gas. By forcing the gas, usually nitrogen or argon, through a narrow nozzle, the gas expands and absorbs heat causing its surroundings to cool	UKG
JP	Jet Petroleum	UKG
JP-10	Jet Propellant 10 (standard missile fuel MIL-P-87107)	UKG

Term	Meaning	Source
JP-5	Jet Propellant 5 (standard high flash point Navy fuel MIL-T-5624)	UKG
JP-7	Jet Propellant 7 (high temperature low volatility jet fuel MIL-T-38219)	UKG
JP-8	Jet Propellant 8 (standard AF kerosene jet fuel MIL-T-83133)	UKG
JPATS	Joint Primary Aircraft Training System	UKG
JPEG	Joint Photographic Experts Group	UKG, 4586, 4545, 4559, 4609, 7023
JPEG-LS	Joint Photographic Experts Group - Lossless	UKG
JPL	Jet Propulsion Laboratory	UKG
JPTS	Jet Propellant Thermally Stable (high thermal stability high altitude fuel MIL-T-25524)	UKG
JR	Jam Resistance	UKG
JRC	Joint Reconnaissance Centre	UKG
JRDF	Rapid Deployment Force	UKG
JROC	Joint Reconnaissance Oversight Council	UKG
JRRF	Joint Rapid Reaction Force	UKG
JRRP	Jaguar Replacement Reconnaissance Pod	UKG
JSEP	Joint Service Electronics Program	UKG
JSF	Joint Strike Fighter	UKG
JSH	JASA Standards Handbook	4586
JSIES	Joint Imagery Exploitation System	UKG
JSIMS	Joint Simulation System	UKG
JSIPS	Joint Service Imagery Processing System	UKG, 4586, CASH
JSIPS-N	Joint Service Imagery Processing System - Navy	UKG
JSOW	Joint Stand-off Weapon	UKG
JSP	Joint Service Publication	UKG
JSPI	Joint School of Photographic Interpretation	UKG
JSTARS	1) Joint Stand-off Target Attack Radar System 2) Joint Surveillance Target Attack Radar System	1&2) UKG 1) 4586 2) 4607
JSWG	JASA Standards Working Group	4586
JT	Joules Thompson	UKG
JTA	Joint Technical Architecture	UKG, 4586, 4609, CASH
JTAGG	Joint Turbine Advanced Gas Generator	UKG
JTC	Joint Task Force	UKG
JTDE	Joint Technology Demonstrator Engine	UKG
JTF	Joint Task Force	UKG, 4586, 4609
JTFC	Joint Task Force Commander	UKG, 4586
JTIC	Joint Interoperability Test Command	CASH
JTIDS	Joint Tactical Information Distribution System	UKG, 4586
JTRS	Joint Tactical Radio System	UKG
JWARS	Joint Warfare Simulation	UKG
JWICA	Joint Warfighter Capabilities Assessment	UKG
JWICS	Joint Worldwide Intelligence Communications System	4586, 4609
JWID	1) Joint Warfighter Interoperability Demonstration 2) Joint Warrior Interoperability Demonstrations	1) UKG 2) 4586
K		
KB	Kilobyte	4586
kb/s	Kilobits per second	4609, 7085

Term	Meaning	Source
KB/s	Kilobytes per second	4609
KBs	Kilobytes per second	4586
KE	Kinetic Energy	UKG
KEAS	Knots Equivalent Airspeed	UKG
KEFH	1000 Engine Flight Hours	UKG
Kernel	For a vector quantized image, a rectangular group of pixels used in the organisation of quantizing image data.	4545
Kerr cell	A Kerr cell is a component containing a material, usually liquid, whose refractive index change is proportional to the square of the applied electric field. The Kerr cell is used as a light modulator	UKG
KEW	Kinetic Energy Weapon	UKG
kHz	Kilohertz	UKG
CIAS	Knots Indicated Air Speed	ATP-47
Kilo	1,000	4586, 4609
KIS	Knowledge Information Systems	UKG
K-Kill	Catastrophic Damage	ATP-47
KKV	Kinetic Kill Vehicle	UKG
KLV	Key-Length-Value	4609, UKG
km	kilometres	UKG, 4586
KMOR	Keep Missile on the Rail	UKG
KPP	Key Performance Parameter	UKG, 4607
KSR	Key System Requirement	UKG
KUR	Key User Requirement	UKG
L		
L&R	Launch and Recovery	UKG, 4586
L16	Link 16 (Tadil J message standard)	UKG, 4586
LAD	Light Aid Detachment	UKG
Ladar	An acronym of laser detection and ranging, defined as an equipment using laser light for detection and ranging. Ladar is sometimes referred to as a laser radar	UKG
LADAR	1) Laser Radar 2) Laser Designator	1) UKG 2) 4586
LADD	Low-Angle Drogue Delivery	UKG
LAEO	Low Altitude Electro Optical	UKG
LAL	Lock After Launch	UKG
Lambert	A unit of luminance. One Lambert equals 1/p candela per square centimetre	UKG
LAN	Local Area Network	UKG, 4586, 4607, CASH, 7085
Landing area	The landing area is the horizontal deck space required to land the air vehicle.	4586
LANTIRN	Low Altitude Navigation and Targeting Infrared for Night	UKG
LAS	1) Local Area Subsystem 2) Local Access Subsystem	1) UKG 2) 4586, 4559
LASER	Light Amplification by Stimulated Emission of Radiation	UKG
Laser Cloud Mapper	A laser system used to monitor aerosol clouds over short ranges	UKG

Term	Meaning	Source
Laser Designator	An instrument for weapon delivery applications, the laser illuminates the target with a coded signal. The attacking missile launched from a platform which can be some distance from the designator, has a laser sensor which detects the reflected coded signal from the target, and provides the homing signal to guide the missile to the target	UKG
Laser Detector	An instrument that senses laser radiation	UKG
Laser Diode Array	A group of laser diodes where the radiated laser outputs are co-ordinated	UKG
Laser Dye	Organic dyes that emit coherent radiation over a wide spectral range, typically wavelengths 300 to 1,000nm	UKG
Laser Gyroscope	An instrument which uses laser light travelling in opposite directions around a ring or other shape of light-conducting material, and is used to detect and measure rotation. The principle of operation is as follows: the relativistic path length of the observer, that is the photon, travelling around the ring with the direction of rotation is different from the relativistic path length of the photon travelling in the opposite direction around the ring against the direction of rotation. The change in path length of the two paths is proportional to the area enclosed by the path and the rate of rotation. A change in output frequency provides a measure of the change in path length and a measure of the rate of rotation	UKG
Laser Pump	The energy source, which can be optical, electrical, chemical or nuclear, which provides energy to the lasing medium. The energy supplied by the pump excites electrons in the atoms or molecules in the lasing material to higher energy levels, until a state of population inversion exists which is sufficient to enable stimulated emissions to take place	UKG
Laser Q-Spoiler	A high-speed shutter, located between one end of a laser rod and the end mirror. The closed shutter prevents laser emission but when quickly opened causes the laser beam to discharge suddenly	UKG
Laser Rangefinder	An instrument to measure the distance to a target by measuring the time it takes for a pulsed laser beam to travel to the target and be reflected back	UKG
Laser Tube	The tube of glass or quartz which contains the resonant cavity and optics of a gas laser	UKG
Lasing Medium	The material within the laser that emits coherent radiation as a result of stimulated electron transitions to lower energy states. The material must have atoms or molecules with one or more metastable energy levels with sufficiently long lifetime to allow population inversion	UKG
LASINT	Laser Intelligence	UKG
LAV	Light Armoured Vehicle	UKG
LAW	Light Anti Tank Weapon	UKG
Layer	See (N)-layer.	7085
Layer MIB	The Management Information Base associated with a particular (N)-layer	7085
LB	Land-based	4586

Term	Meaning	Source
LBD	Laser Beam Detector	UKG
LBL	Lock Before Launch	UKG
LBO	Lean BlowOut	UKG
LCC	Lifecycle Cost	UKG
LCM	Laser Cloud Mapper	UKG
LCN	Logistic Control Number	UKG
LDERU	Light Duty Ejector Release Unit	UKG
LDIU	Legacy Data Link Interface Unit	UKG, 4586
LDM	Logical Data Model	4559
LDn	Length of n th Data Extension Segment	4545
LE, le	Link Establishment	7085
Lead Selenide (PbSe) Cell	A photoconductive material, sensitive to the infrared portion of the spectrum covering wavelengths from 1 to 7æm	UKG
LEAP	Lightweight Exo-Atmospheric Projectile	UKG
LED	Light Emitting Diode	UKG
LEG	Legends	4545
LEO	Low Earth Orbit	UKG, 4586
LFD	1) Linear Finite-Difference 2) Longitudinal Flight Datum	UKG
LFSAR	Low Frequency Synthetic Aperture Radar	4607
LGB	Laser Guided Bomb	UKG
LIDAR	Laser Radar	UKG
Lidar	An acronym of light detection and ranging. Lidar includes any system using a light beam for detection and ranging. The technique monitors the reflected light to locate objects in a similar way that radar uses reflected radio or microwave frequency electromagnetic radiation. The only optical source used for light detection and ranging equipment is the laser. The Ladar, an acronym of laser detection and ranging, and defined as an equipment using laser light for detection and ranging, is sometimes referred to as a laser radar	UKG
LIMAWS	Light Mobile Artillery Weapon System	UKG
LIME	Laser Induced Microwave Emissions	UKG
LIn	Length of n th Image Segments	4545
LiNbO3	Lithium niobate	UKG
Line	An image component. Its structure is defined in the Sync Hierarchy and Image Build Data Table.	7023
Line Scan	Construction of an image by successive scanning of individual lines by a sensor, movement between lines being generally a consequence of the platform motion.	7085
Link Establishment Layer (LE-Layer)	Provides a service to the Format Layer by identifying separate sectors of data (if necessary) and finding an acceptable physical path and characteristics for transmission and reception.	7085
LISHn	Length of n th Image SubHeader	4545
Lithium Fluoride	A crystalline material used for windows and other components in the ultraviolet, visible and infrared. It has very high transmittance from 1,400 angstroms to its infrared absorption edge at 1.8æm	UKG

Term	Meaning	Source
Lithium Niobate (LiNbO ₃)	A crystalline ferroelectric material with very high electro-optic and piezoelectric coefficients. Lithium niobate is used as a substrate material and as the active medium in thin-film optical modulators and switches. Lithium niobate is used as a pyrolytic material in pyrolytic infrared detectors	UKG
Lithium Tantalate (LiTaO ₃)	A pyrolytic material used for pyrolytic infrared detectors	UKG
LIU	Legacy Interface Unit (any "non standard" hardware and software).	UKG, 4586
LL	1) Low Latency 2) Low Level (Altitude)	UKG
LLC	Logical Link Control	7085
LLLTV	Low Light Level Television	UKG
LLTV	Low Light Television	UKG
LM Aero	Lockheed Martin Aeronautics Company (the Skunk Works)	UKG
LNA	Low Noise Amplifier	UKG, 4586
LNDG	Landing	UKG
LO	Low Observable (Stealth)	UKG, 4586
LOC	1) Line of Communication 2) Location	1) ATP-47, UKG, 4607 2) 4545
LOCAAS	Low Cost Autonomous Attack (formerly Anti-Armour) Submunition	UKG
LOCE	Linked Ops Intel Center Europe	UKG, 4586, 4559
LOCG	Location Grid	4545
Logistic Support Analysis	An analytical technique used by ILS management to provide a continuous dialogue between developer and logistician. Provides a system to identify, define, analyse and process logistic support requirements for materiel acquisition programmes.	UKG
Logistic Support Analysis Record	A file or database for logistic support data in a standardised format, on acquisition programmes for specific new or modified systems and equipment. Serves the acquisition process by using logistic data derived during all phases of the process to support logistic support analysis procedures.	UKG
Logistic Support Demonstration	The non-destructive disassembly and re-assembly of a system prototype, to include its related STTE and peculiar TMDE, training aids/TADSS, and support equipment, to: Evaluate the supportability of equipment design Evaluate the adequacy of maintenance planning Evaluate the preliminary System Support Package (SSP) Review the technical publications	UKG
LOI	Level Of Interoperability	4586
longitudinal data track	The longitudinal track between the control track and the transverse tracks on the tape. The data recorded are dependent upon the type of record zone.	7024

Term	Meaning	Source
Longitudinal Track Modulation Method	The modulation method for recording digital data on the longitudinal track using the Manchester encoding. This method results in a transition occurring at the beginning of every bit period. "One" is represented by a second transition one-half a period from the start of a bit. "Zero" is represented when there is no transition within the bit.	7024
Look-Up Table (LUT)	A collection of values used for translating image samples from one value to another. The current sample value is used as an index into the Look-Up Table(s) (LUT); therefore, the number of entries in each LUT for a binary image would contain two entries, and each LUT for an 8-bit image would contain 256 entries. Multiple LUTs allow for the translation of a 1-vector pixel value to an n-vector pixel value.	4545
LORA	Level of Repair Analysis	UKG
LORAN	Long-Range Radio Aid to Navigation	UKG
LOROP	1) Long Range Oblique Photography 2) LOnG Range OPTical sensor	1) ATP-47 1&2) UKG
LOROPS	Long-Range Oblique Photography System	UKG
LOS	Line of Sight	UKG, 4586, CASH, 7085
LPD	Low Probability of Detection	UKG, 7085
LPH	Landing Platform Helicopter	UKG
LPI	Low Probability of Intercept	UKG, 4586, 7085
LPT	Low Pressure Turbine	UKG
LRC	Limited Regional Conflict	CASH
LRE	1) Launch and Recovery Element 2) Launch and Recovery Equipment 3) Line Replaceable Equipment	1) UKG 2) 4586 3) UKG
LRF	Laser Range Finder	UKG
LRI	1) Line Replaceable Item 2) Low Reflectivity Index	1) UKG 2) 4607
LRIP	Low Rate Initial Production	4586
LRS	Launch and Recovery System	UKG, 4586
LRU	1) Launch and Recovery Unit 2) Line Replaceable Unit	1) UKG 2) 4586
LSA	Logistic Support Analysis	UKG
LSAP	Logistic Support Analysis Plan	UKG
LSAR	Logistic Support Analysis Record	UKG
lsb	The least significant bit of a series of bits forming a byte or word.	7024
LSB	1) Least Significant Bit 2) Least Significant Byte	1) 4545 2) 7023, 7024
LSC	Logistic Support Committee	UKG
LSD	Logistic Support Demonstration	UKG
lsn	The least significant nibble of a series of nibbles.	7024
LSn	Length of n th Graphic Segment	4545
LSSHn	Length of n th Graphic SubHeader	4545
LST	Laser Spot Tracker	UKG
LTC	Longitudinal Time Code	UKG
LTD	Laser Target Designators	UKG
LTM	Laser Target Marker	UKG
LTh	Length of n th Text Segment	4545

Term	Meaning	Source
LTOIV	Latest Time of Intelligence Value	7023
LTOO	Left Target Of Opportunity	UKG
LTSHn	Length of n th Text SubHeader	4545
Luminous Flux	Luminous flux is a measure of the ability of the radiant flux from a light source to produce the visual sensation of brightness. The luminous flux measures the flow of light past a given point in a given time	UKG
Luminous Intensity	The luminous intensity is the luminous flux emitted by a light source in an infinitesimally small cone about a defined direction, divided by the solid angle of that cone. The luminous intensity is expressed as luminous flux emitted per unit solid angle, lumen per steradian, or candela	UKG
LUT	Look Up Table	UKG, 4545
Lux	SI unit of illumination, which is sometimes referred to as a metre-candle. One lux is the illumination produced by a unit intensity light source falling normally on a surface at a distance of one metre. One lux is equal to one lumen per square metre	UKG
LV	Laser Vibrometry	UKG
LVT	Low Volume Terminal	UKG, 4586
LWIR	Long Wavelength Infrared	UKG
LWR	Laser Warning Receiver	UKG
lx	Lux	UKG
M		
M	Magnitude	4545
M&S	Modelling and Simulation	UKG
MAA	1) Mission Area Assessment 2) Mission Area Analysis	1) 2) 4607
MAC	Medium (media) Access Control	UKG, 7085
MACET	Modular Algorithm Concept Evaluation Tool	UKG
MAD	1) Magnetic Anomaly Detector 2) Mutually Assured Destruction	UKG
MAE	Medium Altitude Endurance	UKG
MAEO	Medium Altitude Electrical Optical	UKG
MAGIC	Multimission Advanced Ground Intelligent Control	UKG
Magic Number	An identifier for the directory block. This is a value chosen to support discovery of lost directory entries and directory reconstruction after a fault.	4575
Magnification	The multiplication factor which causes an apparent change in linear distance between two points in an image. Thus a magnification of 2 is a change which doubles the apparent distance between two points (multiplying area by 4), while a magnification of 0.5 is a change which halves the apparent distance.	4545

Term	Meaning	Source
Maintenance	1) All action taken to retain materiel in an acceptable condition or to restore it to acceptability. It includes inspection, testing, servicing, classification as to acceptability, repair, rebuilding and reclamation. 2) All supply and repair action taken to keep a force in condition to carry out its mission. The routine recurring work required to keep a facility (plant, building, structure, ground facility, utility system, or real estate) in such a condition that it may be continuously utilised, at its original or designed capacity and efficiency, for its intended purpose	UKG
MAJCOM	Major Command	UKG
MALD	Miniature Air Launched Decoy	UKG
MALE	Medium Altitude, Long Endurance	UKG, 4586
MAM	Medium Altitude Modular	UKG
Managed Object	The OSI management view of a resource within the OSI environment that may be managed through the use of OSI management protocol(s). (ISO/IEC 7498-4 and see Section 3.5.2).	7085
Management Information Base	The conceptual repository of management information within an open system. (ISO/IEC 7498-4)	7085
Management Primitives	Abstract means used by Link Management to elicit required services from an operating link. Compare Primitive.	7085
Mand	Mandatory Requirement	7023
MANPADS	Man Portable Air Defence Systems	UKG
MANPRINT	MANPowerR INTeGration	UKG
MANS	Microcosm Autonomous Navigation System	UKG
ManTech	Manufacturing Technology	UKG
MAP	1) Master Air Plan 2) Military Advice Panel (used in wargaming to give "reality") 3) Mission Area Plan 4) Raster Maps	1-3) UKG 4) 4545
MARREP	Maritime force Locator	4586
MAS	Military Agency for Standardization (now NATO Standardisation Agency)	UKG, 4586, 4545, 4575
Maser	An acronym of microwave amplification by stimulated emission of radiation. The maser preceded the laser, the first masers being developed in the 1950s whereas the first laser was demonstrated in 1960	UKG
MASINT	Measurements and Signature Intelligence	UKG
MATR	Matrix Data	4545
MATV	Multi-Axis Thrust Vectoring	UKG
MAUVMS	Modular Autonomous Unmanned Vehicle Management System	UKG
MAWS	Missile Approach Warning System	UKG
MAX	Maximum	4586
MB	Megabyte	4586
Mb/s	Megabits per second	4609, 7085
MB/s	Megabytes per second	4609
MBE	Molecular Beam Epitaxy	UKG
MBs	Megabytes per second	4586
MBT	Main Battle Tank	ATP-47, UKG

Term	Meaning	Source
MBV	Model Based Vision	UKG
MCA	Multichip Assembly	UKG
MCCIS	Maritime Command & Control Information System	4586, 4559
MCD	Minimum Cost Design	UKG
MCE	Mission Control Element	UKG
MCM	Multichip Module	UKG
MCO	Mass Control Officer	UKG
MCP	Micro Channel Plate	UKG
MCT	Mercury Cadmium Telluride	UKG
MDD	Multi-Disciplinary Design	UKG
MDO	Multi-Disciplinary Optimization	UKG
MDV	Minimum Detectable Velocity	UKG, 4607
MEA	Munitions Effects Assessment	ATP-47
Mech	Mechanised	UKG
MEJ	Multiple Ejection Rack	UKG
MELA	Munition Export License Application	UKG
MEMS	Microelectromechanical System	UKG
MER	Minor Equipment Requirement	UKG
Met	Meteorological	4586
Metadata	Data about data; commonly used to describe the data associated with sensor data that provides platform location, time/date, pointing information, sensor performance, etc.	CASH
MEZ	Missile Engagement Zone	UKG
MFC	Mortar Fire Controller	UKG
MFD	Multifunction Display	UKG
MFTP	Multi-Cast FTP	4586
MGRS	Military Grid Referencing System	4545
MGS	Map Generator Subsystem. A moving map display system, driven by ethernet. Likely to be replaced over the next few years by a commercial software mapping package.	UKG
MGSM	Mobile Ground Support Module	UKG
MHz	Megahertz (FED-STD-1037B)	7085
MIB	Management Information Base	UKG, 4586, 7085
Micron (µm)	A unit of length equal to 10 ⁻⁶ metre, also referred to as the micrometre	UKG
MIDB	1) Modified Intelligence DataBase 2) Modern Intelligence Data Base	1) UKG 2) 4586, 4559
MIDL	Modular Interoperable Data Link	UKG
MIDS	1) Military Information Distribution System 2) Multifunction Information Distribution System	1) UKG 2) 4586
MIES	Modernised Imagery Exploitation System	UKG, 4596, CASH
MIIGS	Multi Input Imagery Ground/surface Station	UKG
MIL	Military	UKG, 4586, 4609
Military Grid Referencing System (MGRS)	A way of expressing Universal Transverse Mercator (UTM) coordinates as a character string, with the 100-kilometre components replaced by special letters (which depend on the UTM zone and ellipsoid). (Annex E of STANAG 2211 contains more details.)	4545
MILO	1) Magnetically Insulated Line Oscillator 2) Military Intelligence Liason Officer	UKG
MILSATCOM	Military Satellite Communications	UKG

Term	Meaning	Source
MILSM	MOD Integrated Logistic Support Manager	UKG
MILSTAR	Military Strategic and Tactical Relay Satellite	UKG
MIL-STD	Military Standard	4586, 4545, 4609, CASH, 7085
MIME	Multipurpose Internet Mail Extension	UKG, 4586
MIMIC	Microwave/Millimetre Wave Monolithic Integrated Circuit	UKG
MIN	Minimum	4586
MINDER	Mine Detection, Neutralisation and Route Marking System	UKG
Mins	Minutes	UKG
MINX	Mines in the Next Century	UKG
MIR	Microwave Imaging Radiometer	UKG
MIRCAT	Multispectral Infra-Red Cueing And Tracking	UKG
MIRFS	Multifunction Integrated Radio Frequency System (JAST)	UKG
MIRGS	Multi-Intelligence Reconnaissance Ground System	UKG
MISM	Motion Imagery Systems Matrix	4609
MISM-L	Motion Imagery Systems Matrix – Level	4609
MISREP	Mission Report	ATP-47
Mission change time	Mission change time includes all of the functions in Turn Around Time and the time required to change the AV payload.	4586
Mission Requester	A person who requests a mission to be flown or planned to obtain information.	7023
MITL	Man In The Loop	UKG
MIV	Mirage IV	ATP-47
MJD	Modified Julian Date	4609, UKG
M-Kill	Mobility Destruction	ATP-47
ML	1) Medium Level (Altitude) 2) Main Level	1) UKG 2) 4609
MLAR	MultiLayer Anti-Reflective (coating)	UKG
MLC	Military Load Class	ATP-47
MLI	Mid Life Improvement	UKG
MLRS	Multiple Launched Rocket System	UKG
MLU	Mid Life Update	UKG
MLV	Medium Launch Vehicle	UKG
mm	Millimetre	7023
MMC	1) Metal Matrix Composite 2) Modular Mission Computer	UKG
MMF	Mobile Maintenance Facility	UKG
MMI	Man Machine Interface	UKG, 4586
MMIC	Monolithic Microwave Integrated Circuit	UKG
MMIE	Man Machine Interface Equipment	UKG
MMP	Modular Mission Payload	UKG, 4586
MMR	Minimum Military Requirement	UKG
MMRMS	Millimetre Wave Reflectivity Measurement System	UKG
MMS	Manufacturing Messaging Specification	UKG, 4586
MMW	Milli-Metre Wave	UKG
MNC	Major NATO Command(s)	AEDP-2
MNE	Managed Network Entity	UKG
MNR	Multiplicative Noise Ratio	4607
MNS	Mission Needs Statement	UKG

Term	Meaning	Source
MO	Managed Object (see definition)(ISO/IEC 7498-4)	7085
MOA	Memorandum of Agreement	UKG, 4586
MOB	Main Operating Base	UKG
MoD	Ministry of Defence	UKG
Modularity	Use of sub-systems or components from one system to function properly as part of another system. The interface at the sub-system level is sufficiently defined.	4586
MoE (also MOE)	Measure of Effectiveness	UKG, 4607
MOGAS	Mobility Gasoline	UKG
MONO	Monochrome	4545
Monochromatic	Composed of only one colour. Monochromatic radiation is composed of only one wavelength and therefore one frequency of radiation	UKG
Monocular	Description of an instrument with one eyepiece in which the image is viewed with one eye	UKG
MOOTW	Military Operations Other Than War	UKG, 4586
MOP	Measures of Performance	4607
MOS	Minimum Operating Strip	ATP-47
MOSP	Multi-mission Optronical Stabilised Payload	UKG
MOTIF	Maui Optical Tracking and Identification Facility	UKG
Motion Imagery	1) A sequence of images, with metadata, which are managed as a discrete object in standard motion imagery format and displayed as a time sequence of images. 2) Imagery [a likeness or representation of any natural or man-made feature or related object or activity] utilizing sequential or continuous streams of images that enable observation of the dynamic behavior of objects within the scene. Motion Imagery temporal rates, nominally expressed in frames per second, must be sufficient to characterize the desired dynamic phenomenon.	1) 4586 2) 4609
MOTS	1) Military Off The Shelf 2) Modified Off the Shelf	1&2) UKG 1) 4586
MoU (also MOU)	Memorandum of Understanding	UKG, 4586
MP	1) Mission Planning 2) Main Profile	1) UKG, 4586 1&2) 4609
MPA	Motion Pattern Analysis	4607
MPEG	Motion Picture Experts Group	UKG, 4586, 4545, 4609
MPEG 1	Motion Picture Experts Group 1 (ISO/IEC 11172-1)	4545
MPEG 2	Motion Picture Experts Group 2 (ISO/IEC 13818-1)	4545
MPI	Message Passing Interface	4607
MPM	Microwave Power Module	UKG
MPO	Mission Planning/Payload Operator	4586
MPP	Modernisation Planning Process	UKG
MPS	1) Minimum Photo Scale 2) Mission Planning Station 3) Mission Planning Subsystem	1) ATP-47 2) UKG, 4586 3) UKG
MQ	Master Question	UKG
MRAM	Magnetoresistive Random Access Memory	UKG
MRAV	Multi Role Armoured Vehicle	UKG
MRC	Major Regional Conflict	CASH
MRI	Magnetic Resonance Imagery	4545

Term	Meaning	Source
MROS	Minimum Resolved Object Size	UKG
MRR	Minimum Route Requirements	UKG
MRT	Minimum Resolvable Temperature	UKG
MRTD	Minimum Resolvable Temperature Difference	UKG
MS	1) Mobile Subscriber 2) Mobile Subsystem 3) Multispectral	1) UKG 2) 4586 3) 4545
MSAP	Mobile Subscriber Access Point	UKG
msb	The most significant bit of a series of bits forming a byte or word.	7024
MSB	1) Most Significant Bit 2) Most Significant Byte	1) 4545 2) 7023, 7024
MSCS	Military Satellite Communication System	UKG
MSE	1) Mean Squared Error 2) Mobile Subscriber Equipment	1) UKG 2) 4586
MSF	Matched Spatial Filter	UKG
Msg	Message	4586
MSI	1) Multispectral Imagery 2) Multispectral Information	1) UKG 2) 4586
MSK	Minimum Shift Keying	UKG, 4586
MSL	Mean Sea Level	UKG, 4586, 4607
MSLM	Microchannel Spatial Light Modulator	UKG
msn	The most significant nibble of a series of nibbles.	7024
MSRA	Multi-Sensor Resource Allocation	4607
MSTAR	Moving and Stationary Target Acquisition and Recognition	UKG, 4607
MSTE	Moving Surface Target Engagement	4607
MSTRS	Miniature Satellite Threat Reporting System	UKG
MSX	Midcourse Space Experiment	UKG
MTBCF	Mean Time Between Critical Failures	UKG, 4586
MTBF	Mean Time Between Failure	UKG, 4586
MTD	Moving Target Detector. A type of radar that can detect movement either toward or away from the radar.	UKG
MTDG	Multichannel Tactical Digital Gateway	4586
MTE	Moving Target Exploitation	4607
MTF	1) Modulation Transfer Function 2) Message Text Formats	1) UKG 2) 4586, 4545
MTI	Moving Target Indicator/Indication (Same as MTD except this radar indicates position and speed of detected objects.)	ATP-47, UKG, 4586, 7023, 4607, CASH, 7085
MTIm	Moving Target Imaging	4607
MTTR	Mean Time To Repair	UKG, 4586
MUAV	1) Maritime Unmanned Air Vehicle 2) Micro-Uninhabited Air Vehicle	1&2) UKG 1) 4586
MULTI	Multiband Imagery	4545
Multimode Laser	A laser that emits in more than one transverse or longitudinal mode. The mode of the laser corresponds to the field pattern and the resonant frequency of the laser	UKG

Term	Meaning	Source
Multiple-Beam Laser	A laser with Q-switching which allows separate sections of the lasing medium to lase independently of each other, thus producing separate laser beams. The multiple beam laser is used in high-speed holography where the interference pattern of two mutually coherent laser beams provides an optical recording of an object	UKG
Multiplication	When used in this document the symbol * shall represent the product of the values of two or more fields of information.	4545
Multispectral Imagery	The image of an object obtained simultaneously in a number of discrete spectral bands. Also called MSI.	4586
MUM	Maximum Useful Magnification	UKG
MUSE	Multiple UAV Simulation Environment	4586
MUX	MULTipleXer	7085
MW	Microwave	UKG
MWIR	Medium Wave IR	UKG
MWS	Management Workstation	UKG
N		
n	1) Refractive index 2) Nano-	UKG
N	1) Newton 2) North	1) UKG 2) 4545
N/A	Not Applicable	UKG, 4586, 4609
NA	Numerical aperture	UKG
NAC	North Atlantic Council	UKG
NADC	NATO Air Defence Committee	UKG
NADSI	NATO Advanced Data Storage Interface	4575
NAFAG	NATO Air Force Armaments Group (under CNAD)	Multiple
NAI	Named Area of Interest	4607
NAIC	National Air Intelligence Centre	UKG
NaN	Not a Number	7023, 4607
Nanometre	A unit of length in the metric system equal to 10 ⁻⁹ m. One thousand nanometres are equal to 1µm. The nanometre is sometimes referred to as the millimicron	UKG
Narrow band link	A narrow band link is considered to be a link with bandwidth up to 50 kb/s	4586
NASA	National Aeronautics and Space Administration	UKG, 4586
National Television Standards Committee (NTSC)	As used in this STANAG, a technical standard for a television format widely used in the U.S. and Canada.	7085
Native File Format	The format that a specific system uses for internal storage and processing of images, graphics, text and associated data.	4545
NATO	North Atlantic Treaty Organisation	UKG, 4586, 4545, 4559, 4575, 4609, 7023, 4607, 7085
NATS	National Air Traffic Service	UKG
Natural artifacts	Natural entities of no intrinsic military significance (other than that their presence affecting the context in which an operation is being conducted) such as hills, rocks, lakes, and vegetation.	4607

Term	Meaning	Source
Navigation accuracy	Navigation Accuracy is the accuracy with which the AV can be located on the surface of the earth in terms of latitude and longitude and the altitude of the AV above the surface of the earth measured in feet.	4586
NAVMAC	Navy Modular Automated Communication System	4586
NAVWAR	Navigation Warfare	UKG
NB	Narrow Band	UKG, 4586
NBC	Nuclear, Biological, and Chemical	UKG, 4586
NBCL	Narrow Band Control Link	UKG
NBPC	Number of Blocks Per Column	4545
NBPP	Number of Bits Per Pixel per band	4545
NBPR	Number of Blocks Per Row	4545
NC3A	NATO Consultation, Command and Control Agency	UKG
NCIS	NATO Common Interoperability Standards	4586, 4609
NCOE	NATO Common Operating Environment	UKG, 4586
NCSP	NATO Common Standards Profile	UKG, 4586
NCTR	Non Cooperative Target Recognition	UKG, 4586
NCWG	National Correlation Working Group	UKG
Nd:glass	Neodymium:glass	UKG
Nd:YAG	Neodymium Yttrium Aluminium Garnet	UKG
NDB	Non-Directional Beacon	UKG
NDE	Non-Destructive Evaluation	UKG
NDI	Non Developmental Item	UKG, 4586
NDI/E	Non-Destructive Inspection/Evaluation	UKG
Near Ultraviolet	The long wavelengths of the ultraviolet region near to the visible band, nominally 300 to 400 nm	UKG
Near-Real-Time	Delay caused by automated processing and display between the occurrence of an event and reception of the data at some other location.	4586, 4609
NED	1) NATO Effective Date 2) North, East, Down Local Coordinate System	1) 4575 2) 4607
NEFF	Non Essential Function Failure	UKG
Neodymium:YAG	Neodymium Yttrium Aluminium Garnet. Yttrium aluminum garnet doped with neodymium is a lasing medium of the Nd:YAG laser. The laser frequency is 1.064 micrometres. Uses include laser rangefinding, laser radar, holography, materials working and optical fibre communications	UKG
NEP	Noise Equivalent Power	UKG
NETD	Noise Equivalent Temperature Difference. The measured temperature difference between two points in an image that would be equivalent to that produced by the noise in the system	UKG
Network	(1) An interconnection of three or more communicating entities and (usually) one or more nodes. (2) A combination of passive or active electronic components that serves a given purpose.	4586, 4545, 4559
NF	Noise Figure	7085
NFOV	Narrow Field Of View	UKG
NFS	Network File System.	UKG, 4586
nibble	An ordered string of 4 bits starting with the most significant bit and ending with the least significant bit, representing a numeric value to be acted on as a unit.	7024
NICOM	Number of Image Comments	4545

Term	Meaning	Source
NIDS	NATO Interoperable Design Study	UKG
NIE	NATO Interoperability Environment	AEDP-2
NIETWG	NATO Interoperability Environment Testing Working Group	AEDP-2
Night Vision Device	An instrument that uses image intensification of low-level visible radiation or detection of infrared radiation to produce a visual image	UKG
NIIA	1) NATO Imagery Interoperability Architecture (obsolete term) 2) NATO ISR Interoperability Architecture	1) UKG 2) Multiple
NIIDLS	NATO Imagery Interoperable Data Link Study	7085
NIIRS	1) NATO Imagery Interpretability Rating Scale 2) National Imagery Interpretation Rating Scale	1) ATP-47 2) UKG, 4586
NIMA	National Imagery and Mapping Agency	UKG, 4545 4607, CASH
NIMP	NATO Interoperability Management Plan	4586
NIPS CDB	Naval Intelligence Processing Services Common Date Base	4586
NIST	National Institute of Standards and Technology	UKG
NITF	National Imagery Transmission Format	UKG, 4586, 4545, 4559, 4607, CASH
NITFS	National Imagery Transmission Format Standard	UKG, 4586, 4609
N-layer	A subdivision of the OSI architecture, constituted by subsystems of the same rank (N). (X.200)	7085
NLO	Non-Linear Optics	UKG
NLT	No later than	ATP-47
nm	nanometre	UKG, 4586
NMS	Network Management System	UKG
NNAG	NATO Naval Armaments Group	4586
NNEMP	Non-Nuclear Electromagnetic Pulse	UKG
NNTP	Network News Transfer Protocol	4586
NODISPLY	Image not intended for display	4545
Non-Real Time Processing	Non-flight critical processing accomplished within the host system software including interface to C4I system(s). Pertaining to the timeliness of data or information that has been delayed by the time required for electronic communication and automatic data processing. This implies that there are no significant delays.	4586, 4609
Non-Return to Zero Inverse, Version 1 (NRZI(1))	A coding method where "1" is denoted by a waveform transition in the center of a bit cell and a "0" is denoted by no change.	7024
Non-volatile	Memory Media that retains data when power is removed.	4575
NOSE	NATO Open Systems Environment	4545
NOSIP	NATO Open System Interconnection Profile	4586, 4545, 4559
NOTAM	Notice to Airmen	UKG
NOTS	NATO Off-The-Shelf	UKG, 4586
NOx	Nitrous Oxide	UKG
NPPBH	Number of Pixels Per Block Horizontal	4545
NPPBV	Number of Pixels Per Block Vertical	4545
NPV	Net Present Value	UKG
NRA	National Rivers Authority	UKG

Term	Meaning	Source
NRO	National Reconnaissance Office	CASH
NRSC	National Remote Sensing Centre	UKG
NRT	1) Near Real-Time 2) Non Real Time	1) UKG, 4586, 4607 1&2) 4609
NRZI(1) (recording) wave-form	A two level wave form, obtained through NRZI(1) modulation, whose binary representation is a string of NRZI(1) symbols.	7024
NRZI(1) symbol	A 9-bit symbol derived through NRZI(1) modulation of a 9-bit NRZL word.	7024
NSA	NATO Standardisation Agency	AEDP-2
NSDL	Narrowband Satellite Data Link	UKG
NSE	Non Standard Equipment	UKG, 4586
NSIF	NATO Secondary Imagery Format	UKG, 4586, 4545, 4559, 4607, 4609
NSIF Capable System	A system which is capable of both generating (Pack Capable) and receiving/processing (Unpack Capable) a NSIF File.	4545
NSIFS	NATO Secondary Imagery Format Standard	4545
NSIL	NATO Standard Imagery Library	UKG, 4586, 4559, 4609
NSILI	NATO Standard Image Library Interface	4586, 4559, 4609
NSN	NATO Stock Number	UKG
NSR	NATO Staff Requirements	UKG, 4586
NSSE	Non Standard Support Equipment	UKG, 4586
NTF	Network File Server	4586
NTIS	NATO Technical Interoperability Standards	4586, 4609
NTM	Notice To Move	UKG
NTR	Nothing to Report	ATP-47
NTS	Naval Telecommunications System	4586
NTSC	National Television Systems Committee. US colour television standard.	UKG, 4586, 4609, 7085
NUCINT	Nuclear Intelligence	UKG
NUMDES	Number of Data Extension Segments	4545
NUMI	Number of Images	4545
NUMRES	Number of Reserved Extension Segments	4545
NUMS	Number of Graphics Segments	4545
NUMT	Number of Text Segments	4545
NUMX	NSIF File Header field reserved for future use	4545
NVECTOR	Vector with Cartesian coordinates	4545
NVG	Night Vision Goggles	UKG, ATP-47
O		
O&M	Operations and Maintenance	UKG
OA	Operational Analysis	UKG
OADR	Originating Agency's Determination is Required	4545
OAS	Offensive Air Support	ATP-47, UKG
OB	Order of Battle	ATP-47, 4586
OBIGGS	On-Board Inert Gas Generating System	UKG
OBOGS	On-Board Oxygen Generation System	UKG
OBP	On Board Processing	UKG, 4586
OBR	Operational Benefits Report	UKG
OBREP	Order of Battle Report	4586
OBSERVER	Short range tactical UAV	UKG

Term	Meaning	Source
OC-12	Fiber Optic Communications Standard (655 Mbps)	UKG, 4609
OC-3	Fiber Optic Communications Standard (155 Mbps)	UKG, 4609
OCA	Offensive Counter Air	ATP-47, UKG
OCD	Operational Concept Description	UKG
OCP	Operator Control Panel	UKG
ODB	Operational Data Base	UKG, 4586
ODDS	Optical Disc Data Store	UKG
OE	1) Operational Effectiveness 2) Operational Emergency 3) Operating Environment	1&2) UKG 3) 4607
OEW	Offensive Electronic Warfare	UKG
OFP	Operational Flight Program	UKG
OFT	Operational Field Trial	UKG
OGC	Open GIS Consortium	4586, 4559
OHHA	Occupational Health Hazard Analysis	UKG
OJT	On Job Training	UKG
OLB	Off-line Backup	UKG
OMW	Ocean Monitoring Workstation	UKG
On condition maintenance	Maintenance performed as a result of an indication of a component failure or a change in status of a system component (such as wear indications) which requires repair or replacement.	4586
On task time	On task time is the amount of time that the AV can spend in the objective area during a single flight. The AV is in the objective area if the AV payload can accomplish the mission within the geographic parameters, which the AV controller is assigned as an objective.	4586
ONAME	Originator's Name	4545
OO	Other Operations	UKG
OODA	Observe Orient Decide Act (~ loop.)	UKG
OOK	On Off Keying	UKG, 4586
OOSE	Object-Oriented Simulation Environment	4586
OOTW	Operations Other Than War	UKG, 4586, CASH
OP	Optical	4545
OPCOM	Operational Command	UKG
Open Systems Interconnect Model	This model is defined in ISO/IEC 7498-1.	4586, 4545, 4559, 4609
Operational Architecture	A description of the operational elements, assigned tasks, and information flows required to support the warfighter. It defines the type of information, the frequency of exchange, and what tasks are supported by these information exchanges. The operational architecture is often graphical and describes missions, functions, tasks, and information requirements.	4586
operational state	This is established through a combination of: (a) knowledge of the the target established during previous stages of the analysis process, (b) domain knowledge of how the feature of interest is used operationally. Using (a) and (b) the IA can build up a picture of a target's operational state.	UKG

Term	Meaning	Source
Operator aids	Operator aids are display presentations providing information such as payload data and air vehicle status, which allow the operator to easily exploit data and control the AV.	4586
OPFOR	Opposing Force	4586
OPHONE	Originator's Phone Number	4545
OPLAN	Operations Plan	UKG
OPO	Optical Parametric Oscillator	UKG
OPORD	Operational Order	UKG
OPS	Operations	UKG, 4586
OPSEC	Operations Security	UKG
Opt	Optional Requirement	7023
Optical Correlator	An instrument for comparing an input signal with stored data in a photonic computer. An optical correlator usually contains a spatial light modulator and a reference filter	UKG
OPTINT	Optical Intelligence	UKG
OQPSK	Offset Quadrature Phase Shift Keying	1) UKG, 4586, 7085
OR	Operational Requirements	UKG
ORB	Object Request Broker	4559
ORBAT	Order of Battle	UKG
Order of Battle	The identification, strength, command structure, and disposition of the personnel, units, and equipment of any military force.	4586
Organic Dye Laser	A laser which has a fluorescing organic dye as the lasing medium carried in a solvent. The pumping source and the particular dye used determine the emission frequency which is in the visible spectrum between near infrared to ultraviolet. An important property is the continuous tunability over a broad spectrum of frequencies. Applications include medicine, spectroscopy and fluorescence studies	UKG
OSA	Optical Society of America	UKG
OSD	Out of Service Date	UKG
OSE	Open System Environment	UKG, 4586, 4545, 4559
OSI	Open System Interconnect	UKG, 4586, 4545, 4559, 7085
OSIM	Open Systems Interconnect Model	UKG
OSINT	Open Source Intelligence	ATP-47, UKG
OSO	Offensive System Operator	UKG
OT&E	Operational Test and Evaluation	UKG
OTA	Over Target Area	UKG
OTAD	Over The Air Distribution	UKG
OTAR	Over The Air Distribution	UKG
OTCIXS	Officer In Tactical Command Information Exchange System	4586
OTH	Over The Horizon	UKG, 4586
OTH-B	Over-the-Horizon Radar-Backscatter	UKG
OTHT	Over The Horizon Targeting	UKG
OTH-T	Over The Horizon – Targeting	4586
OTR	Optical TRacking	UKG
OTS	Over The Shoulder	UKG

Term	Meaning	Source
outer check code	Of two sequential error detection and correction codes, the second encountered on play back from tape.	7024
Outer Code Block	Consists of 117 bytes of digital data followed by ten bytes of outer code check data	7024
Ox	Hexadecimal notation.	4545
P		
p	progressive	4609
P	1) Precision 2) Phase	1) UKG 2) 4545
P_D	Probability of detection	UKG
P_FA	Probability of false alarm	UKG
P{a}	Probability of event {a}	UKG
P3I	Pre-Planned Product Improvement	UKG CASH
P4A	Programmable Powdered Preform Process for Aerospace	UKG
PA&E	Program Assessment and Evaluation	UKG
Packet	A data structure consisting of a synchronization code, a header, and a data file.	7023, 7085
Pad Pixel	A pixel with sample values that have no significant relevance to the image. Pad Pixels are used with block images when either the number of pixel rows in an image is not an integer multiple of the desired number of vertical image blocks, or when the number of pixel columns in an image is not an integer multiple of the desired number of horizontal image blocks.	4545
Pad Pixel Mask	A data structure which identifies recorded/transmitted image blocks which contain Pad Pixels. The Pad Pixel Mask allows applications to identify image blocks which require special interpretation due to Pad Pixel content.	4545
PAL	1) Phase Alternate Line 2) Pulse Alternation Line	1) 4609, UKG 2) 7085
Pan framing sensor	A pan framing sensor collects data samples while the sensor is in continuous motion.	7023
PAO	Pseudo-Autonomous Operation	UKG
Parameter	A physical characteristic of a data link whose value must be defined to permit interaction of two terminals.	7085
Parity	In binary-coded systems, the oddness or evenness of the number of ones in a finite binary stream. It is often used as a simple error-detection check and will detect (but not correct) the occurrences of any single bit error in a field.	4545
PASP Plus	Photovoltaic Array Space Power Plus Diagnostics	UKG
Passive	In surveillance, an adjective applied to actions or equipment which emit no energy capable of being detected.	4586
Passive receiver station	The Passive Receiver Station is a UCS enabling a level two interoperability	4586
PAT	Colour Patch	4545
PAVE	Precision Avionics Vectoring Equipment	UKG
PAWS	Parallel Assessment Window System	UKG
Payload	The Payload is the sensor package on the device carried by the UAV, which performs the mission assigned.	4586

Term	Meaning	Source
PbTiO ₃	Lead Titanate	UKG
PC	1) Personal Computer 2) Photoconductive	UKG
pcb	printed circuit board	UKG
PCCADS	Panoramic Cockpit Control and Display System	UKG
PCD	Polycrystalline Diamond	UKG
PCMCIA	Personal Computer Memory Card International Association	UKG
PCS	1) Personal Communications System 2) Portable Control Station	UKG
PD	Pulse Doppler (Radar)	UKG
PDD	Project Definition Document	UKG
PDE	Pulse Detonation Engine	UKG
PDF	1) Precision Direction Finder 2) Portable Document Format	1) UKG 2) 4586
PDM	Program Decision Memorandum	UKG
PDR	1) Preliminary Design Review 2) Programmable Digital Radio	UKG
PDRE	Pulse Detonation Rocket Engine	UKG
PDS	Post Design Service. A contract term	UKG
PDU	1) Power Distribution Unit 2) Primary Data Unit 3) Protocol Data Unit (FED-STD-1037B)	1) 4586 2) 4607 3) 7085
PDW	Pulse Data Word	UKG
PE	Program Element	UKG
PEBB	Power Electronic Building Block	UKG
Peer-entities	Entities within the same [OSI] layer (X.200)	7085
PFI	Private Finance Initiative	UKG
PfP	Partnership for Peace	UKG
PG/35	Project Group 35 (NNAG)	UKG/4586
PGM	Precision Guided Munitions	UKG
Ph	Physical	7085
PHA	Preliminary Hazard Analysis	UKG
PHC	Personal Holding Card	UKG
PHL	Preliminary Hazard List	UKG
PHOENIX	British Army UAV, designed primarily for artillery target acquisition.	UKG
Phosphor	A material that exhibits fluorescence when excited by ultraviolet radiation or x-rays. A phosphorescent substance exhibits fluorescence which persists after the exciting radiation is removed	UKG
PHOTINT	Photo Intelligence	UKG
Photoelectric Effect	The emission of an electron from a surface that occurs when a photon strikes and is absorbed by the surface	UKG
Photographic Intelligence	The collected products of photographic interpretation, classified and evaluated for intelligence use. Also called PHOTINT.	4586
Photon	The smallest quantum of light or electromagnetic energy of a single mode, that is a single wavelength, direction and polarization. The energy of the photon equals $h\nu$, h being Planck's constant and ν the frequency of the electromagnetic wave. The momentum of the photon is $h\nu/c$ where c is the velocity of light	UKG

Term	Meaning	Source
Photopumping	The use of light to deliver energy in order to initiate the lasing process, usually referred to as optical pumping	UKG
PHS&T	Packaging Handling Storage & Transportation	UKG
Physical Beginning of Tape	The transition from the opaque area of the spice where the translucent trailer is joined to the magnetic tape.	7024
Physical Layer (Ph-Layer)	The layer which provides mechanical, electrical, functional, and procedural means to activate and deactivate physical connection for bit transmission between data link entities. (X.200). In this STANAG, the physical connection exists in the atmospheric medium and data transmission covers analogue as well as digital (bits).	7085
PI	Photographic Interpreter	UKG
PICON	Portable Imagery Communications Node	UKG
PILO	Photographic Interpreter Liason Officer	UKG
pilot	A sine wave signal of relatively low frequency which is added to the transverse track data record signal to facilitate track identification and location on playback.	7024
PILOT	Phased Integrated Laser Optics Technology	UKG
PIM	Parameterised Ionosphere Model	UKG
PiSi	Platinum Silicide	UKG
PIT	Primary Imagery Transmission	UKG
Pixel	1) A pixel is represented by an n-vector of sample values, where n corresponds to the number of bands comprising the image. 2) A picture element. The smallest resolvable area of an image, either on screen or stored in memory. Samples relating to the same pixel shall be contained within a single packet of sensor data. Pixels are made from samples; Samples are made from elements. Pixel size \geq Sample size Sample size \geq Element size	1) 4545 2) 7023
PJUST	Pixel Justification	4545
Pk	1) Kill Probability 2) Peak value (of baseband voltage level or modulated signal)	1) UKG 2) 7085
PKC	Public Key Cryptography	UKG
PL	Payload	UKG
PLAID	Precision Location and Identification	UKG
Plasma	A gas cloud of electrons and ions	UKG
Platform	The airborne vehicle carrying a sensor or relay equipment.	7085
Platform Data	Information such as aircraft position, heading, and velocity, required by the surface terminal for data link establishment and maintenance and for platform control by a surface station.	7085
PLC	Payload Control	UKG
PLO	Payload Operator	UKG
PLSD	Protection and Life Sciences Division (was CBDE)	UKG
PM	1) Project Manager/Programme Manager 2) Preventive Maintenance	1) UKG 2) 4586
PMAD	Power Management and Distribution	UKG
PMCS	Programmable Modular Communications System	UKG
PMD	1) Program Management Directive 2) Portable Maintenance Device	UKG
PMMW	Passive Millimetre Wave	UKG

Term	Meaning	Source
PMMWI	Passive Millimetre Wave Imaging	UKG
PMP	Programme Management Plan	UKG
PO	1) Planning Officer 2) Payload Operator	1) UKG 2) 4586
POC	Point(s) of Contact	AEDP-2
Pockels Cell	A component used to modulate a light beam. The cell is composed of a material whose refractive index changes linearly with the applied magnetic field	UKG
POD	Point of Disembarkation	UKG
POE	Point of Embarkation	UKG
POL	Petrol, Oil and Lubricants	ATP-47, UKG
POLAR	Vectors with polar coordintes	4545
Polarised Light	Light whose electric field vector vibrates in only one direction which does not change, that is, the electric vector vibrates in a single plane perpendicular to the direction of the beam. The direction of polarisation is the direction of the electric field vector	UKG
Polariser	An optical component which can transform unpolarised into polarised light, or can alter the polarisation of polarised light	UKG
POP3	Post Office Protocol	UKG
Positive Identification	The ability to discriminate between enemy, friendly and civilian forces or assets.	UKG
POSIX	Portable Operating System Interface	4545
Postamble	1) A collection of auxiliary data files to enable efficient analysis of the record. Postamble data files are optional and may be appended to the preamble (if possible) or appended to the data segments. 2) The sequence of bits defining the end of a sector. 3) A sync pattern followed by an identification pattern	1) 7023 2&3) 7024
post-record zone	The third zone of a recording, following the user record zone, in which the SAT data in the transverse scan track and the time code field in the longitudinal data track differ from that in the user record zone.	7024
POTS	"Plain Old Telephone Service"	UKG
POW	Prisoner(s) of War	ATP-47
Power (Level) Control	Variation of the transmitted power level to maintain an adequate but not excessive received power level. Particularly used to avoid unnecessarily high transmitted power levels which would make unauthorised interception more likely.	7085
PPBS	Planning Program and Budgeting System	UKG
PPE	Post Project Evaluation	UKG
PPI	Plan Position Indicator. A type of radar display showing detections as dots on the screen.	UKG
PPLI	Precise Position Location Information	UKG
PPLN	Periodically Poled Lithium Niobate	UKG
ppm	Parts per million	7085
PPO	Provisional Project Office	UKG
PPP	Point to Point Protocol	UKG, 4586
PPR	Programme Progress Review	UKG
PPS	Parallel Processing System. SG Onyx-based hardware responsible for image processing and display.	UKG
PQAP	Personal Qualities Assessment Profile	UKG

Term	Meaning	Source
PRAT	Production Reliability Acceptance Test	UKG
Preamble	1) The first segment in a record. The contents of a preamble shall enable an exploitation system to interpret and act upon subsequent segments. 2) The sequence of bits defining the start of a sector. 3) A sequential bit pattern recorded at the beginning of each helical track, consisting of a run-up sequence, a sync pattern, an identification pattern, and a secondary run-up sequence.	1) 7023 2&3) 7024
preamble run-up	The first part of a preamble, containing bit-clock-divided-by-six as the magnetization pattern.	7024
pre-record zone	The first zone of a recording, preceding the user record zone, in which the SAT data in the transverse scan track and the time code field in the longitudinal data track differ from that in the user record zone.	7024
PRF	Pulse Repetition Frequency	UKG, 4586
PRFECT	Prediction RF Effects Coupling Tool	UKG
Primary Data	Data directly received from the sensor	4586
Primary Imagery	Unexploited, original imagery data that has been derived directly from a sensor. Elementary processing may have been applied at the sensor, and the data stream may include auxiliary data.	4586, 4545, 4559
Primitive	See Service Primitive	7085
Prism	A transparent optical component with at least two polished plane faces inclined relative to each other so that the deviation from the first surface is increased and not annulled by the second surface. Light is either reflected by or refracted through a prism. Prisms are often triangular in shape	UKG
PRK	Photorefractive Keratectomy	UKG
Procedures	The rules associated with protocols rather than the formats associated with them.	7085
Processed Imagery	Imagery that has been formatted into image pixel format, enhanced to remove detected anomalies and converted to a format appropriate for subsequent disposition.	4586, 4545, 4559
product code arrays	A two dimensional arrangement of bytes, identified by byte markers, as these bytes migrate between outer and inner code error protection processes.	7024
Profile	A PROFILE documents a mandated, unique and fully defined configuration of standards and specifications for an application or system under the STANAG 4609.	4609
PROFSV	Profile Server	4586

Term	Meaning	Source
Progressive Scan	The image is continuously scanned from left to right and from top to bottom using all pixels in the capture. This is opposed to interlace scanning used in conventional television, which scans from left to right for one line then skips every other line to form a field of the image. The second field is made up of the lines that were skipped in the first field. The combination of two fields constitutes a frame. It should be noted that progressive scan systems do not suffer motion in the frame caused by interlace artifacts and the loss of vertical and temporal resolution caused by motion occurring between the scanned fields of an interlaced system.	4609
promulgation	the process of formally distributing a NATO publication and incorporating the document into the official register of documents (see AAP-3)	AEDP-2
PROTEC	Programmable Ordnance Technology	UKG
Protocol	(1) [In general], A set of semantic and syntactic rules that determine the behaviour of functional units in achieving communication. For example, a data link protocol is the specification of methods whereby data communication over a data link is performed in terms of the particular transmission mode, control procedures, and recovery procedures. (2) In layered communication system architecture, a formal set of procedures that are adopted to facilitate functional interoperation within the layered hierarchy. Note: Protocols may govern portions of a network, types of service, or administrative procedures.	4586, 4545, 4559, 4609
Protocol - (N)- Protocol	A set of rules and formats (semantic and syntactic) which determines the communication behaviour of (N)-entities in the performance of (N)-functions (X.200)	7085
PRS	1) Passive Receiver station 2) Parachute Recovery System	1) UKG 1&2) 4586
ps	progressive scan	4609
PS	Program Stream	4609, UKG
PSC	Principal Subordinate Command	UKG
PSE	Project Safety Engineer	UKG
Pseudocolour	A user-defined mapping of n-bits into arbitrary colours.	4545
PSF	Point Spread Function	UKG
PSIDS	Prototype Secondary Information Dissemination System	UKG
PSNR	Peak Signal to Noise Ratio	UKG
PSO	Peace Support Operations	UKG
PSR	Photo Scale Reciprocal	ATP-47
PSS	Pointing and Stabilisation System	UKG
PSTN	Public Subscriber Trunk Network	UKG
PSYOPS	Psychological Operations	UKG
PTO	Prevents Takeoff	ATP-47
PtSi	Platinum Silicide	UKG
PTW	Precision Targeting Workstation	UKG
PULHHEEMS	Physical, Upper, Locomotion, Hearing (right ear), Hearing (left ear), Eyesight (right eye), Eyesight (left eye), Mental Capacity, Stability	UKG

Term	Meaning	Source
Pulse Alternation Line (PAL)	A technical standard for a television format widely used in European countries.	7085
PVC	Pneumatic Vortex Control	UKG
PVF	Polyvinylfluoride	UKG
PVI	Pilot/Vehicle Interface	UKG
PVTYPE	Pixel Value Type	4545
PxMT	Phoenix Military Team	UKG
Pyld	Payload	4586
Pyrolytic Detector	Pyrolytic detectors are very fast detectors of infrared and visible radiation with speed of response down to the picosecond level	UKG
PZ	Piezoelectric	UKG
Q		
Q	1) Quality factor 2) The figure of merit of an energy storing system or a resonator, is defined as $\{2\pi\} \times$ (average energy stored in the resonator)/(energy dissipated per cycle). In the case of the optical resonator the higher the reflectivity of the surfaces results in less energy loss from the mode of resonance and the higher the figure of merit, Q 3) Quadrature	1&2) UKG 3) 4545
QA	Quality Assurance	UKG
QAR	Quality Assurance Representative	UKG
QIP	Quadrilateral Interoperability Programme	UKG
QIT	Quality Improvement Team	UKG
QoS	Quality of Service	UKG, 4586, 4609
QPSK	Quadrature Phase Shift Keying	7085
QRA	Quick Reaction Alert	ATP-47
QRT	Quick Reaction Team	UKG
QSIF	Quarter SIF (176x120 pixels quarter screen)	4609, UKG
Q-Switch Pulse	A laser pulse which is very short and of very high-intensity which is emitted when the resonator Q which is first kept very low is raised to its normal value. Saturable absorbers or rotating mirrors are used to keep the cavity resonator Q low so that the population inversion is increased to a greater value than normal. When the Q is raised to its normal value a high-intensity, short pulse of laser radiation is emitted. The total energy in each pulse is less than would be delivered with a longer pulse, but the peak power of the pulse is higher than the laser could produce without Q-switching	UKG
Quasi-Optical	Possessing properties similar to those of light waves, for example the propagation of waves in the millimetre wave band	UKG
Quenching	The partial or complete inhibition of one process by another process. A method of quenching the stimulated emission of a laser is to provide a second pulse of radiation of the same frequency traversing the oscillator in a different direction. This second pulse stimulates the laser to emit radiation in a direction different from the original oscillating mode, and the result is the original oscillation is decreased	UKG
QWIP	Quantum Well Infrared Photodetector	UKG

Term	Meaning	Source
R		
r	Target range, kilometres	UKG
R	1) Recognition 2) Reconnaissance 3) Required 4) Red	1&2) UKG 3&4) 4545
R Signals	Royal Signals	UKG
R&D	Research and Development	UKG, 4586
R&M	Reliability and Maintainability	UKG
R&R	Repair and Recovery	UKG
R(A)PC	Recognized (Air) Picture Production Centre	UKG
RA	Royal Artillery	UKG
RAAF	Royal Australian Air Force	UKG
RAAP	Rapid Application of Air Power	UKG
RAC	Royal Armoured Corps	UKG
rad	Radian	UKG
RAD	Radians	4586
RADALT	Radar Altimeter. A radio ranging instrument which measures the distance between the instrument and the ground or surface level. Typically in the context of aircraft the RADALT is the "radar altitude" above ground level, i.e. the actual height of the aircraft above the nearest surface vertically below the aircraft.	UKG, 7023
Radar	Radio Detection And Ranging	UKG
RADAREXREP	Radar Exploitation Report	ATP-47
RADINT	Radar Intelligence	UKG
Radius of action	Radius of action is the maximum distance a vehicle can travel away from its base along a given course with normal combat load and return without refueling, allowing for all safety and operating factors. For a UAV system the radius of action is defined as the maximum range at which the AV can achieve the on-task times stated in this NSR.	4586
RAF	Royal Air Force	ATP-47, UKG
RAID	1) Redundant Array of Independent Disks 2) Redundant Array of Inexpensive Disks	1&2) UKG 2) 4586
RAILE	Retro-Assisted Imaging Laser Experiment	UKG
RAM	1) Radar Absorbing Material 2) Random Access Memory 3) Reliability Availability and Maintainability	UKG
Raman Effect	When light is transmitted through a transparent material, part of the light is scattered in all directions. The frequency of most of the scattered light is identical to the frequency of the incident beam. A small part of the scattered light has frequencies different from the frequency of the incident beam by values equal to the emission or absorption lines of the atoms or molecules of the scattering material. This small part is called Raman scattering. If the frequency (ν) of the incident light is varied, then the frequencies of the Raman scattered photons maintain constant frequency differences from ν	UKG
RAMTIP	Reliability and Maintainability Technology Insertion Program	UKG

Term	Meaning	Source
Randomization	1) The reduction of correlation in a serial bit sequence so that it statistically approximates to a random sequence 2) A technique used to invert the sense of pseudorandomly selected bits of a bit stream to avoid long sequences of bits of the same sense (FED-STD 1037B).	1) 7024 2) 7085
RAP	Recognised Air Picture	UKG
RAPHAEL	Radar de Photographie Aérienne Electronique à Transmission Herzienne	ATP-47
RAPTOR	1) RAdar Plus Thermal Observation and Recognition 2) Reconnaissance Airborne Pod for TORnado	UKG
RASER	Research and Seeker Emulation Radar	UKG
RASP	Recognized Air and Surface Picture	UKG
RASPC	Recognized Air and Surface Picture Production Centre	UKG
ratification	the process of approving a NATO publication, for STANAGs, by submission to the individual nations (see AAP-3)	AEDP-2
RATO	Rocket Assisted Take Off	UKG, 4586
RCD	Rapid Conceptual Design	UKG
RCM	Reliability Centred Maintenance	UKG
RCR	Research Customer Representative (was RPO)	UKG
RCS	1) Radar Cross Section 2) Remote Communication Servers	1) UKG, 4607 1&2) 4586
RD	Radar	4545
RD&A	Research, Development, and Acquisition	4586
RDE	Rapid Data Entry	UKG
RDT&E	Research Development Test and Evaluation	UKG, 4586
RE	Registered Extension	4545
Real-time Processing	AV command and control info including antenna positioning and AV video receipt and processing. Pertaining to the timeliness of data or information that has been delayed only by the time required for electronic communication. This implies that there are no noticeable delays.	4586, 4609
Recce	Reconnaissance	UKG
RECCE System	Reconnaissance System	7085
RECCEXREP	Reconnaissance Exploitation Report	ATP-47, UKG, 4586
RECMN	Recommendation	4545
Recognition	1) The ability to fix the identity of a feature or object on imagery within a group type, i.e. tank, single-lane bridge. 2) The process of establishing the function or generic type of a feature of interest (e.g. tank, helicopter, ship train etc.) 3) The determination by any means of the friendly or enemy character or of the individually of another, or of objects such as aircraft, ships or tanks, or of phenomena such as communications-electronics patterns. (JSP 110).	1) ATP-47 2&3) UKG

Term	Meaning	Source
Recommended Practice	Where the term A RECOMMENDED PRACTICE is used, the item documents a mandated implementation or practice that further clarifies the implementation of a STANDARD or PROFILE in order to enforce interoperability across NATO systems.	4609
Reconnaissance	A mission undertaken to obtain, by visual observation or other detection methods, information about the activities and resources of an enemy or potential enemy; or to secure data concerning the meteorological, hydrographic characteristics of a particular area.	4586, 4609, AAP-6
Reconstruction	For a vector quantized image, the process of transforming an image from a quantized form into a displayable and exploitable form.	4545
Record	The top level data structure consisting of all of the segments. A record may contain all or a portion of the data collected during a mission.	7023
Record(ed)(er)	When used in this document (STANAG 4545), the words recorder or recorded do not refer to recording equipment or media.	4545
Recorder	The entity that includes the input and control interfaces, RMM, and functionality required to properly record data.	4575
Recovery	The term "recovery" or "recovery phase" in air operations is the phase of a mission which involves the return of an aircraft to base and includes the approach to the landing platform, & landing. If the Air Vehicle is to be stowed after flight, securing on deck and handling of the Air Vehicle (AV) is also included.	4586
REDATA	RE User-Defined Data	4545
Reference Dimension	A dimension usually without tolerance, used for information purposes as a defined dimension, from which other dimensions are measured	7024
reference edge	An equivalent reference edge on the control track side of the tape that is established according to 4.4.5 and may not coincide with the guide edge.	7024
Regt	Regiment	UKG
Relay	An intermediate station passing information between terminals or other relay stations. (FED-STD-1037B) This may be used to overcome loss of signal by reason of propagation loss and lack of a direct line-of-sight.	7085
Reliability Centred Maintenance	A systematic approach for identifying preventive maintenance tasks for an end item in accordance with a specified set of procedures and for establishing intervals between maintenance tasks.	UKG
REME	Royal Electrical and Mechanical Engineers	UKG
REMIDS	REMOte MInefield Detection System	UKG
Remotely Piloted Vehicle	An unmanned vehicle capable of being controlled from a distant location through a communication link. It is normally designed to be recoverable. Also called RPV.	4586
Removable Memory Module (RMM)	That element of the data recorder that contains the stored data and NADS Interface and is easily removed for download. This can range from a replaceable subassembly to the entire recorder, as appropriate.	4575
Req	Requirement	UKG

Term	Meaning	Source
Request (primitive)	A primitive issued by a service user to invoke some procedure (X.210).	7085
Required Field	When applied to a NSIF File Header or Subheader Field, the term required indicates a mandatory field that must be present and filled with valid data.	4545
RES	Reserved Extension Segment	4545
RESDATA	RES User-Defined Data	4545
Resolution	1) A measurement of the smallest detail that can be distinguished by a sensor system under specific conditions. Note: High resolution does not necessarily imply high accuracy. 2) The minimum difference between two discrete values that can be distinguished by a measuring device. 3) The degree of precision to which a quantity can be measured or determined.	1) 4586, 4609 1-3) 4545
Response (primitive)	A primitive issued by a service user to complete, at a particular service-access-point, some procedure previously invoked by an indication at that service-access-point. (X.210)	7085
RESSHF	RES User-Defined Subheader Fields	4545
RESSHL	RES User-Defined Subheader Length	4545
RETAG	RE Unique Extension Type Identifier	4545
Return Link	In this STANAG, a link carrying sensor data usually from an airborne platform to a surface terminal.	7085
RF	Radio Frequency	UKG, 4586, 4609, 7085
RFA	Rectangular Format Array	UKG
RFC	1) Request for Change 2) Request for Comment	1&2) UKG 2) 4586, 7085
RFCM	Radio Frequency Countermeasure	UKG
RFI	Request for Information	ATP-47, UKG, 4586
RGB	Red Green Blue. Three primary colours from which all other optical colours are derived. Analogue voltages between 0.3 and 1 Volt. Digital values normally scaled between 0 and 255.	UKG, 4545, 7023
RGB/LUT	Mapped colour	4545
RGP	Research Guidance Paper	UKG
RGPO	Range Gate Pull-Off	UKG
RHI	Regimental Headquarters	UKG
RIC	1) Reconnaissance Intelligence Cell 2) Reconnaissance Interpretation Centre	UKG
RIDEX	Reconnaissance/Intelligence Data Exchange	UKG
RIGS	Recce/Intel Ground System	UKG
RINT	Unintentional Radiation Intelligence	UKG
RIP	Research Implementation Plan	UKG
RISC	Reduced Instruction Set Computer	UKG
RISTA	Reconnaissance Intelligence Surveillance and Target Acquisition (now ISTAR)	UKG
RJ, rEJ	ReJect	7085
RK	Radial Keratectomy	UKG
RLG	Ring Laser Gyro	UKG
RM	Risk Management	UKG

Term	Meaning	Source
RM&S	Reliability Maintainability and Supportability	UKG
RMC	Risk Management Committee	UKG
RMM	Removable Memory Module	4575
RMP	Recognised Marine Picture	UKG
rms	Rout mean square	UKG
RMS	1) Reconnaissance Management System 2) Reliability, Maintainability, Survivability	1&2) UKG 1) 7023
RN	Real Number	7023
RNIIRS	Radar National Image Interpretability Rating	UKG
rNR	Receive Not Ready	7085
RO	Research Objective	UKG
robustness	A robust system is one where its operation is degraded only after damage to its component parts.	UKG
Rod	The rod-shaped structures in the retina of the eye. The purpose of the rods is to detect photons, and they are used for black and white vision at low levels of illumination. There are 120 million rods in each eye	UKG
ROE	Rules Of Engagement	UKG, 4586, 4607
ROI	Region Of Interest	UKG, 4607
ROLE terminal	Receive Only Link Eleven Terminals	UKG
ROM	Rough Order of Magnitude	UKG, 4607
ROS	1) Relief on Station 2) Rules of Safety	4586
ROZ	Restricted Operating Zone	UKG
RP	1) Reference Point 2) Recommended Practice 3) Reporting Post 4) Route Plan	1) ATP-47 2) 4609 2-4) UKG 4) 4586
RP-1	Rocket Propellant 1 (standard kerosene rocket fuel MIL-P-25576)	UKG
RPC	Remote Procedure Call in UNIX.	UKG, 4586
RPM	Research Procurement Manager	UKG
RPO	Research Project Officer (now RCR)	UKG
Rpt	Report	4586
RPV	Remotely Piloted Vehicle	UKG
RR	Railroad	ATP-47
RRB	Radio Rebroadcast	UKG
RRCA	Radar Referenced Coverage Area	4607
RRS	Remote Receiver Station	UKG
RS	Reserved Segment(s)	4545
RSDC	Reconnaissance Support Development Cell	UKG
Rsets	Reduced Resolution Data Sets	4545
RSLP	Rocket System Launch Program	UKG
RSM	Reconnaissance (Recce) System Management	7085
RSP	Recognised Surface Picture	UKG
RSPCC	Recognized Surface Picture Production Centre	UKG
RSR	Radar Service Request.	4607
RSS	Recce Support Squadron	UKG
RST	Restart	7023
RSTA	Reconnaissance, Surveillance and Target Acquisition	UKG, 4586, 4609
RSVP	ReSerVation Protocol	4586
RT	Real Time	4607, 7085
RTAVS	Real Time All Vehicle Simulator	UKG
RTB	Return to Base	UKG

Term	Meaning	Source
RTIC	Real-Time Information in the Cockpit	UKG
RTOC	Real-Time Information out of the Cockpit	UKG
RTOO	Right Target Of Opportunity	UKG
RTOS	Real-time Operating System	UKG, 4586
RTP	1) Real Time Protocol 2) Real Time Processor	1) UKG 1&2) 4586
RTSMP	Real-Time Symmetric Multiprocessor	UKG
RTTS	RAF Transportable Telecommunications System	UKG
RTV	Rapid Terrain Visualisation	UKG
Ruby Laser	An optically pumped, solid-state laser using sapphire, Al ₂ O ₃ , as the host lattice and chromium as the active species. The emission of the laser takes place in the red portion of the spectrum at wavelength 694 nm	UKG
RULER	A software application for doing mensuration and related analysis functions	CASH
RULLI	Remote Ultra-low Light Imager	UKG
Run-up Sequence	A sequential bit pattern chosen to facilitate the synchronization of data extraction circuits	7024
RUR	Research User Requirements document	UKG
RVT	Remote Video Terminal	UKG, 4586
RW	Rotary Wing	UKG
RWI	Radar Warning Indicator	UKG
RWR	Radar Warning Receiver	UKG
Rx	Receive	UKG, 4586, 4609
RX	Receiver	UKG
S		
s	Seconds	4609
S	1) Seconds 2) band Sequential (IMODE field value) 3) South (ICORDS field value) 4) Secret (security fields value)	1) 4586 2-4) 4545
S&T	Science and Technology	UKG
S&TE	Support and Test Equipment	UKG
S/D	Structure and Definitions Sub-Group	4607
S/J	Signal to Jam	UKG
S/TODS	Strategic/Tactical Optical Disk System	UKG
S/V/L	Survivability/Vulnerability/Lethality	UKG
S/W	Software	UKG
SA	Situational Awareness	UKG, 4607
SAA	Situation Awareness and Assessment	4607
SABR	Support Amphibious Battlefield Rotorcraft	UKG
SACEUR	Supreme Allied Commander Europe (HQ: SHAPE)	UKG
SADARM	Search and Destroy Armour Munition	UKG
SAG	Studies Assumption Group	UKG
SAIM	System d'Aide a l'Interpretation Multicapteur	UKG
SAIP	Semi-Automated IMINT Processing	UKG
SAL	Semi-Active Laser	UKG
SALT	Strategic Arms Limitation Treaty	UKG
SALUTE	Size, Activity, Location, Unit, Time, Equipment	4586
SALVL	Graphic Display Level	4545
SAM	Surface to Air Missile	ATP-47, UKG
SAMFU	SAM Fire Units	UKG
SAMOC	SAM Operation Centre	UKG

Term	Meaning	Source
Sample	1) The atomic element of an Image Pixel having a discrete value. One sample from the same location in each band comprising an image will combine to form a pixel. 2) A digital value representing the output of one or more sensor elements. The ordering of the samples can differ from sensor to sensor. Pixels are made from samples; Samples are made from elements. Pixel size \geq Sample size Sample size \geq Element size	1) 4545 2) 7023
SAO	Strategic Air Offensive	UKG
SAP	Service Access Point	7085
SAR	1) Synthetic Aperture Radar 2) Search and Rescue	1) ATP-47, 4545, 7023, 4607, 7085 1&2) 4586, UKG
SARA	Station aérotransportable de reconnaissance aérienne (Air transportable air reconnaissance station)	ATP-47
SARIQ	SAR radio hologram	4545
SAT	The Scan address, Auxiliary data, or Time code (SAT) byte is the last byte of each code-word in a transverse scan track. The SAT byte functionality depends upon its location in the transverse scan track as well as the particular record zone.	7024
SATCOM	Satellite Communications	UKG, 4586, 4609
SATURN	Second-generation Anti-jam UHF Radio for NATO	UKG
SAVI	Space Active Vibration Isolation	UKG
SAW	Surface Acoustic Wave	UKG
SAWS	Silent Attack Warning System	UKG
SB	Sea-based	4586
SBIRS	Space Based Infrared System	UKG
SBL	Space Based Laser	UKG
SBN	Strontium Barium Niobate	UKG
SBND	Symbol BouND (defines boundary limits for the graphic)	4545
Scalability	The characteristic that enables system size and capability to be tailored dependent on the user needs.	4586
scan track sync (STS)	The sequence of bits following the run-up sequence on every transverse track.	7024
SCATS	Suspense Control and Automated Tracking System	UKG
SCCS	Source Code Control System	UKG
SCDL	Surveillance and Control Data Link	UKG
SCE	Surface Communication Element	7085
Scene element	An area on the ground that is projected onto a single sensor element of the sensor at a given instant in time.	7023
SCF	System Cognitive Functions	UKG
SCI	Scalable Coherent Interface	UKG
SCIF	Special Compartmented Information Facility	UKG
SCP	Software Control Plan	UKG
SCR	Signal to Clutter Ratio	UKG
SCRA	Single Channel Radio Access	UKG
Scrambling	An alternative term for randomization	7024
SCSI	Small Computer Systems Interface	UKG, 4575
SCSI ULP	Small Computer System Interface Upper Level Protocol	4575

Term	Meaning	Source
SD	1) Self Defence 2) Standard Definition	1) UKG 2) 4609
SDD	1) Software Design Description	UKG, 4586
SDDI	Serial Digital Data Interface (formatter developed by SONY)	UKG
SDE	Support Data Extension	4586, 4545, CASH
SDI	Serial Digital Interface	4609, UKG
SDIF	SGML Document Interface Format	4545
SDLVL	Graphic Display Level	4545
SDP	Software Development Plan (Procedures)	UKG, 4586
SDR	Strategic Defence Review	UKG
SDS	Software Design Specification document	UKG
SDT	Shipboard Data Terminal	UKG
SDTI	Serial Data Transport Interface	4609, UKG
SDTV	Standard Definition Television	UKG
SDW	Self Defence Weapon	UKG
SE	Support Element	UKG, 4586
SEAD	Suppression of Enemy Air Defence	UKG
SECAM	System Electronique Couleur Avec Memoire	4609, UKG
Secondary data	The output of processing primary data	4586
Secondary Imagery	Secondary Imagery is digital imagery and/or digital imagery products derived from primary imagery or from the further processing of secondary imagery.	4586, 4545, 4559, 4609
Secondary Imagery Dissemination (SID)	The process of dispersing or distributing digital secondary imagery.	4586, 4559, 4545
Secondary Imagery Dissemination System (SIDS)	The equipment and procedures used in secondary imagery dissemination.	4586, 4559, 4545
Secs	Seconds	UKG
sector	The helical record pertaining to a single helical track.	7024
sector recording tolerance	The maximum allowable distance, along the track centerline, of the data area reference point from the intersection of the track centerline and the data area reference line.	7024
SED	Signal External Descriptor	4586
SEDFB	Surface-Emitting Distributed Feedback	UKG
Segment	1) A Subheader and a Data Field. 2) A set of interleaved packets of data without any time discontinuities. Segments are defined for the purpose of transmitting related sensor data and auxiliary data. 3) All reconnaissance data collected while any sensor is active. Segments are bounded by periods of total sensor inactivity. There are no time discontinuities within a segment. Segments are composed of interleaver packets from each block. Segments are defined for the purpose of transporting and/or storing a continuum of simultaneous inputs of sensor and auxiliary data.	1) 4545 2) 7023 3) 7085
SEISP	System Electronic Security Policy	UKG
SEM	Savings and Enhancements Measures	UKG

Term	Meaning	Source
Semiconductor Laser	The principle of operation is that the electric current flowing through the p-n junction region of a semiconductor diode causes the electrons to be raised to the excited state and laser light is then emitted from that region. The laser output is directly modulated by the drive current. Types of semiconductor laser are Gallium Aluminium Arsenide, GaAlAs, with laser wavelength 750 to 905 nm, and Indium Gallium Arsenide Phosphide, InGaAsP, with laser wavelength 1,100 to 1,600 nm. Semiconductor lasers are used for printing, recording, optical communications and optical pumping. Phase coupled arrays of GaAlAs semiconductor diode lasers are used for rangefinding	UKG
sensor	1) A technical means to extend man's natural senses. 2) Equipment which detects, and may indicate, and/or record objects and activities by means of energy or particles emitted, reflected, or modified by objects.	1) UKG 2) 4586, 4609
Sensor data	Image data collected by a sensor.	7023, 7085
Sensor data file	A logical grouping of data for a specific sensor.	7023
SEP	Sensor Emulation Platform	4607
Service Primitive	An abstract (and) implementation independent interaction between two layers, one being the Service User and other the Service Provider. (X.210)	7085
Service-Access-Point	(N)-service-access-point; the point at which (N)-services are provided by an (N)-entity to an (N+1)-entity. (X.200)	7085
SF	Special Forces	UKG
SFC	Specific Fuel Consumption	UKG
SFH	Streaming File Header	4545
SFH_DELIM1	SFH Delimiter 1	4545
SFH_DELIM2	SFH Delimiter 2	4545
SFH_L1	SGH Length 1	4545
SFH_L2	SGH Length 2	4545
SFOV	Scan Field Of View	UKG
SFP	Sensor Fusion Post	UKG
SFT	Special Forces Team	UKG
SFW	Sensor Fused Weapon	UKG
SGML	1) Standardised General Mark-up Language 2) Standardized Graphic Mark-up Language	1) UKG 2) 4545
SHA	System Hazard Analysis	UKG
SHAPE	Supreme Headquarters Allied Powers Europe	UKG
SHF	Super High Frequency	UKG
shoebox	A target recognition aid used by IAs consisting of a number of cards containing images and information on individual items of military equipment.	UKG
SI	International System of Units (the modern metric system)	4545
SIAM	Système d'Aide à l'Interprétation Multicapteur	ATP-47
SIAP	Single Integrated Air Picture	4607
SIAR WG	Standing Interoperability and Applications (RSTA) Working Group	UKG
SID	Secondary Imagery Dissemination	UKG, 4545, CASH
SIDAT	Subsystems Integrated Design Assessment Technology	UKG

Term	Meaning	Source
SIDS	Secondary Imagery Dissemination System	4545
SIE	Sensor Information Exchange	UKG
SIF	Standard Image Format (352x240 pixels full screen)	4609, UKG
SIFT	All Source Intelligence Fusion Testbed.	UKG
SIGINT	Signals Intelligence	ATP-47, UKG, 4586, CASH
SIHS	Softcopy Imagery Handling System	UKG
SIIRCM	Suite of Integrated Infrared Countermeasures (Army)	UKG
Simplex (Circuit)	A circuit that provides transmission in one direction only (FED Definition 1).	7085
SINGARS	Single Channel Ground and Airborne Radio System	4586
SIP	Software Installation Plan	UKG, 4586
SIPRNET	Secret Internet Protocol Router Network	4586
SIRFC	Suite of Integrated Radar Frequency Countermeasures (Army)	UKG
SIRIUS	Système d'Interprétation Rapide Interactif Universel de la Station (Universal Rapid Interactive Interpretation System)	ATP-47
SIT	Secondary Imagery Transmission	UKG, 4545
SL	Side Looking radar	4545
SLAM-ER	Ship-Launched Land Attack Missile - Extended Range	UKG
SLAR	Side(ward) Looking Airborne Radar	UKG, 7085
SLBD	Sea-Lite Beam Director	UKG
SLCS	Software Lifecycle Support	UKG
SLEP	Service Life Extension Program	UKG
SLIR	Side(ways)-Looking Infrared	ATP-47, UKG
SLOC	Graphic Location	4545
SLS	Sea-Level Static	UKG
SMAP	Security Management Application Programme	UKG, 4586
SMART	Smart Multipurpose Airborne Reconnaissance Trials	UKG
SMDAL	System Master Data and Assumptions List	UKG
SME	Subject Matter Expert	UKG
SMI	Structure of Management Information	7085
SMP	Safety Management Plan	UKG
SMPS	Standard Mission Preparation System	UKG, 4586
SMPTE	Society of Motion Picture and Television Engineers	UKG, 4586, 4609
SMS	Sensor Mix Study	UKG
SMTP	1) Simple Mail Transfer Protocol 2) Standard Message Transfer Protocol	1&2) UKG 1) 4586
SNMP	Simple Network Management Protocol	UKG, 4586, CASH, 7085
SNR	Signal to Noise Ratio	UKG, 4586, 4609
SNS	Standard Numbering System	UKG
SO	Spatial Orientation	UKG
SOAP	Spectrometric Oil Analysis Program	UKG
SOC	Special Operations Command	UKG
SOF	1) Special Operations Forces 2) Start Of Frame	1) UKG 2) 7023
SOF ₀	Start Of Frame for 8-bit Baseline JPEG	7023
SOF ₁	Start Of Frame for 12-bit Extended Sequential JPEG	7023
SOFRADIR	Societe Francaise de Detecteurs Infrarouge	UKG

Term	Meaning	Source
Software	A set of computer programs, procedures and associated documentation concerned with the operation of a data processing system, e.g. compilers, library routines, manuals, and circuit diagrams.	4586, 4609
SOI	1) Silicon on Insulator 2) Space Object Identification 3) Start Of Image	1&2) UKG 3) 7023
SOM	Space-Oblique Mercator	4607
SONET	Synchronous Optical Network	UKG, CASH
SOP	1) Secure Operating Procedures 2) Standard Operating Procedure	UKG
SOR	Statement Of Requirement	UKG
SoS	System of Systems	4607
SOS	Start Of Scan	7023
SOSTAS	Stand-Off Surveillance and Target Acquisition Systems	UKG
Source address	Related tables have the same source address for "high level" addressing.	7023
Source Code Control System	A configuration control utility for development software	UKG
source information	The part of an inner code data field that contains 153 bytes from 153 different outer code data fields; also, the 153 NRZI(1) 9-bit symbols of a sector.	7024
SOW	Statement of Work	UKG
SPC	Senior Principal Consultant	UKG
Speckle	In laser systems, a granular effect is observed in the expanded cross-section of a laser beam. The speckle pattern is a power intensity pattern resulting from mutual interference of partially coherent beams of radiation	UKG
Spherical Aberration	The radiation around the edge of a lens comes to a focus in front of the focus for radiation passing through the centre of the lens	UKG
SPICE	Space Integrated Control Experiment	UKG
SPIE	Society of Photo-Optical Instrumentation Engineers	UKG
SPIFF	Standard Profile for Image File Format	4545
SPINS	Special Instructions	UKG
SPIRIT	TROJAN Special Purpose Integrated Remote Intelligence Terminal II	UKG, 4586
SPIRITS-AC 2	Spectral and In-Band Radiometric Imaging of Targets and Scenes-Aircraft2	UKG
SPL	Sound Pressure Level	UKG
SPOT	SystSm Probatoire d'Observation de la Terre	UKG
SPP	Safety Programme Plan	UKG
Spread Spectrum	A telecommunications technique in which a signal is transmitted in a bandwidth considerably greater than the frequency content of the original information (FED-STD-1037B, Definition 1).	7085
SPRITE	Signal Processing In The Element	UKG
SPS	Software Product Specifications	UKG, 4586
SQINTO	Squadron Intelligence Officer	UKG
SQL	Structured Query Language	UKG
SQOC	Squadron Operation Centre	UKG
SQUID	Superconducting QUantum Interference Device	UKG
SR	Staff Requirement	UKG

Term	Meaning	Source
SR(A)	Staff Requirement (Air)	UKG
SRAM	Static Random Access Memory	UKG
SRAP	Surface and Recognised Air Picture	UKG
SRD	System Requirements Document	UKG, 4586
SRM	Sensor/System Resource Management	4607
SRR	Software Requirements Review	UKG
SRS	Software Requirement Specification	UKG, 4586
SRTM	Shuttle Reconnaissance Terrain Mapping	4607
SRU	Standard Replaceable Unit	UKG, 4586
SRUAV	Short Range UAV	UKG
SrxBax-1Nb2O3	Strontium barium niobate	UKG
SS	Sector Search	4607
SSA	Supplementary Storage Area	ATP-47
SSAR	Spotlight SAR	UKG
SSB	Small Smart Bomb	UKG
SSC	Software Structure Chart	UKG
SSD	System Software Design document	UKG
SSDD	System / Subsystem Segment Design Description	UKG, 4586
SSG	Special Study Group	4586
SSIB	Solid State Imagery Buffer	UKG
SSIES	Special Sensor for Ions Electrons and Scintillations	UKG
SSK	Diesel-electronic submarine	UKG
SSL	Solid-State Laser	UKG
SSM	Surface to Surface Missile	ATP-47, UKG
SSMP	Service Specific Mission Planner	UKG, 4586
SSMU	System State Management Unit	UKG
SSN	Space Surveillance Network	UKG
SSP	System Security Policy	UKG
SSPP	Sub-system Safety Programme Plan	UKG
SSR	1) Solid State Recorder 2) System Software Requirements 3) Sensor Service Request	1&2) UKG 3) 4607
SSS	System / Subsystem Segment Specification	UKG, 4586
SSTE	Special to System Test Equipment	UKG
SSTT	Small Satellite Thermal Technologies	UKG
ST	Specialist Team	4586
STA	Standard	4545
STAG	Smart Tactical Autonomous Guidance	UKG
STAIRS	Sensor Technologies for Affordable Infra Red Systems	UKG
STANAG	(NATO) Standardization Agreement	ATP-47, UKG, 4586, 4545, 4559, 4575, 4607, 4609, 7085
Stand - By	Capability is capable of being tasked. Could include system elements in an airborne holding pattern.	UKG
Standardisation	The process by which maximum commonality is achieved with other systems in use within other Services, and NATO allied nations, to reduce support requirements and to obtain interoperability objectives. Standardisation has four elements defined as:	UKG

Term	Meaning	Source
Standards	The Standardization Agreements (STANAGs), Military Standards (MIL-STDs), International Standards Organization (ISO), International Telecommunications Union (ITU) Recommendations and other International Standards contain provisions which, through references in this text, constitute provisions of this STANAG.	4609
STAP	Space Time Adaptive Processing	UKG, 4607
STAR	Surveillance Target Acquisition and Reconnaissance	UKG, 4586
STASG	Surveillance and Target Acquisition Support Group	UKG
Statement of Work	The SOW is a contractual document that describes the activities that the Contractor shall complete.	UKG
Station keeping	Station keeping is the ability of the AV to maintain a position or station in terms of range, bearing and altitude from the control ship for an extended period of time.	4586
STBY	Standby	UKG
STC	SHAPE Technical Centre	UKG
STD	System Qualification Test Description	UKG
STE	1) Special Test Equipment 2) Stationary Target Exploitation	1) UKG, 4586 2) 4607
Step framing sensor	A step framing sensor collects data samples while the sensor is moved in a step-stop motion.	7023
STOL/MTD	Short Take-Off and Landing/Manoeuvring Technology Demonstrator	UKG
Storage	a) The retention of data in any form, usually for the purpose of orderly retrieval and documentation. b) A device consisting of electronic, electrostatic or electrical hardware or other elements into which data may be entered, and from which data may be obtained.	4586, 4609
Stored Data	That data stored in the RMM that is required to be transferred to the ground system.	4575
STOVL	Short TakeOff and Vertical Landing (fighter/attack aircraft)	UKG
STOW	Synthetic Theatre of War	UKG
STP	CSCI and System Qualification Test Plans	UKG
STRAMST	S&T Reliance Assessment for Modeling & Simulation Technology	UKG
STTE	Special Tools and Test Equipment	UKG
STUFT	Ships Taken Up From Trade	UKG
STVOL	Short Take-Off Vertical Landing	UKG
STYPE	Standard Type	4545
Sub-Unit Commander	Company, Squadron and Battery commanders.	UKG
SUG	System User Guide document	UKG
SUN	Statement of User Needs	UKG
Super frame	The highest order of image component. Its structure is defined in the Sync Hierarchy and Image Build Data Table.	7023
SUPIR	Supplemental Programmed Interpretation Report	ATP-47
Support Data Extension (SDE)	Information, if provided, which adds additional capabilities to process the NSIF.	4545

Term	Meaning	Source
Supportability	That characteristic of a system and its support system design that provides for sustained system performance, at a required readiness level, when supported in accordance with specified concepts and procedures.	UKG
SUR	System User Requirements document	UKG
Surface Station	The total operating units required to receive imagery data from a surveillance or reconnaissance platform, to process exploit and retransmit such information and, as necessary, to communicate with the airborne platform for command and control.	7085
Surveillance	The systematic observation of aerospace, surface or sub-surface areas, places, persons or things by visual, aural, electronic, photographic or other means. (JSP 110).	UKG, 4586, 4609, AAP-6
SVD	Software Version Description	UKG, 4586
SVHS	Super Video Home System	UKG
S-VHS	Super Vertical Helical Scan	4609
SWAG	Scientific Wild Arse Guess	UKG
SWAP	Size Weight And Power	UKG
Swath	An image component. Its structure is defined in the Sync Hierarchy and Image Build Data Table.	7023
SWIR	Short-Wavelength Infrared	UKG
SWP	Size Weight and Power	UKG, 4586
SXSHD	Graphic Extended SubHeader Data	4545
Sync	1) A prescribed bit pattern used as a marker to enable systems to recognise the start of system specific data streams. 2) Synchronization	1) 7023 2) 7085
sync block	A part of a sector between preamble and postamble, starting with a sync pattern and followed with an inner code data field.	7024
sync pattern	1) A magnetization pattern defining the start of each sync block and the postamble or following the preamble run-up. 2) Consecutive 9 bit words whose bit pattern is chosen to be unique, compared to data	7024
SYS	System Unit	UKG
System specification (a spec)	The document which accurately describes the essential equipment requirements for items, materials or services, including the procedures by which it will be determined that the requirements have been met.	4586, 4609
Systems Architecture	Defines the physical connection, location and identification of the key nodes, circuits, networks, warfighting platforms, etc., associated with information exchange and specifies systems performance parameters. The systems architecture is constructed to satisfy operational architecture requirements per the standards defined in the technical architecture.	4586
T		
T	Temperature	7085
T&E	Test & Evaluation	UKG, 4586
T/O	Take-Off	UKG
T/R	Transmit/Receive	UKG
T/W	Thrust to Weight Ratio	UKG

Term	Meaning	Source
T-1	Telecommunications Link Standards (1.5 Mbps)	UKG
T ² A	Terrain / Threat Avoidance	UKG
T-3	Telecommunications Link Standards (45 Mbps)	UKG
TAA	Technical Assistance Agreement	UKG
Table	The STANAG 7023 documented representation of a data file.	7023
Tac	Tactical	UKG
TAC	1) Tactical Advanced Computer 2) Timing and Control	1) 4586 2) 4607
TACAN	Tactical Aid to Air Navigation	UKG
TACC	Tactical Air Control Centre	UKG
TACCOM	Tactical Communications	4586
TACNOTE	Tactical Note	4586
TACO2	Tactical Common Protocol 2	UKG
TACOMS	Tactical Communications	4559
TACON	Tactical Control	UKG
TACR	TACTical Reconnaissance	UKG
TACREP	Tactical Report	4586
Tactical UAV	An unmanned aerial vehicle designed, equipped and operated to support tactical units (normally division and below, and combatant ships) with local area and battlefield intelligence that will support their operations	4586
TAD	Target Audience Description	UKG
TADC	Tactical Air Direction Common	ATP-47
TADIX	Tactical Date Information Exchange System	UKG
TADIXS	Tactical Data Information Exchange System	4586
TADMS	Tactical Automated Data Manipulation System	UKG
TAFF	Task Abort Function Failure	UKG
TAFIM	Technical Architecture Framework for Information Management	4545
tag	label	UKG
TAG	Tracking Antenna Group	UKG
Tagged Record Extension (TRE)	A set of fields to support user defined and extended data.	4545
TAI	Target Area of Interest	UKG
TAID	Target Acquisition, Identification and Designation	UKG
Tailoring	The process by which the individual requirements of the selected specifications and standards are evaluated to determine the extent to which each requirement is most suitable for a specific project and the modification of these requirements, where necessary, to assure that each tailored document states only the minimum needs for the project.	UKG
TAL	Tactical Air Launch	UKG
TALD	Tactical Air Launched Decoy	UKG
TAMPA	Tornado Advanced Mission Planning Aid	UKG
TAMPS	Tactical Aircraft Mission Planning System	UKG, 4586, CASH
TAOS	Technology for Autonomous Operational Survivability	UKG
TAP	Tactical Air Picture	UKG
tape format	The collection and relative position of all possible tracks on tape.	7024
TAR	Tactical Air Reconnaissance	UKG

Term	Meaning	Source
Target	1) A discrete entity of interest to Users. Although this includes tanks, aircraft, personnel etc. it also includes inanimate objects such as bridges, buildings, harbours and other man-made and natural objects. 2) A geographical area, complex, or installation planned for capture or destruction by military forces. 3) In intelligence usage, a country, area, installation, agency, or person against which intelligence operations are directed.	1) UKG 2&3) 4586
Target Acquisition	The detection, identification and location of a target in sufficient detail to permit the effective employment of weapons. Increasingly applied to reconnaissance as the object(s) of search and location activity, whether to provide intelligence data or to cue weapon systems directly.	UKG, 4586, AAP-6
Target index number	A unique number assigned to each target to associate it with related target information tables.	7023
target intelligence	Intelligence which portrays and locates the components of a target or target complex and indicates its vulnerability and relative importance.	AAP-6
target packet	Any data on a particular target.	UKG
Target reports	A target report contains all the information generated from a single detection.	4607
Target Signature	The characteristics pattern of a target displayed by detection and identification equipment.	4586
Targeting	1) Targeting is the ability to report the position of a target detected with an AV payload. Target position is reported in terms of latitude and longitude or in terms relative to the ship. Target position information is sufficiently accurate to support weapon system fire control requirements. 2) The process of selecting targets and matching the appropriate response to them taking account of operational requirements and capabilities.	1) 4586 2) AAP-6
TARPS	Tactical Aircraft Reconnaissance Pod System	UKG
TARWI	Target Weather Information	ATP-47
TAS	True Air Speed	UKG
TASE	Thrust Assessment Support Environment	UKG
Tasking	Order issued by nominated commander to those controlling the TUAV IMINT capability, in order to meet unit commander's CIRs.	UKG
TASMO	Tactical Support to Maritime Operations	ATP-47
TAV	Transatmospheric Vehicle	UKG
TBA	To Be Addressed	UKG, 4586
TBC	Thermal Barrier Coating	UKG
tbc (also TBC)	To be confirmed	UKG
TBD	1) To Be Defined 2) To be Determined	1&2) UKG 1) 4586, 4609 2) 4607, 7085
TBM	1) Theatre Ballistic Missile 2) Theatre Battle Management	UKG
TBMCS	Theatre Battle Management Core System	UKG, 4586
TBR	To Be Refined	7085
TC	Telecommand	UKG, 4586
TCAS	Traffic Collision Avoidance System	UKG

Term	Meaning	Source
TCAS II	Technical Collision Avoidance System	UKG, 4586
TCC	Tactical Control Centre	UKG
TCD	Target Critical Dimension	UKG
TCDL	Tactical Common Data Link	UKG, 4586
TCM	Terrain Characteristic Matching	UKG
TCP	Transmission Control Protocol	4607, CASH
TCP/IP	Transfer Control Protocol/Internet Protocol	UKG, 4586
TCS	1) Tactical Control Station/System 2) Topocentric Coordinate System	1) UKG, 4586 2) 4607
TCT	Time Critical Target	UKG, 4607
TCW	Tactical Communications Wing	UKG
TDA	Technology Development Approach	UKG
TDC	Theatre Deployable Communications	UKG
TDET	Target Detection	UKG
TDGS	Technical Demonstrator Ground Station. Now known as TGS	UKG
TDI	Time Domain Integration	UKG
TDL	Tactical Data Link	UKG
TDM	Time Division Multiplexing (FED-STD-1037B)	7085
TDMA	Time Division Multiple Access	UKG, 4586
TDP	Tactical Data Processor	4586
TDPA	Tactical Deception Planning Aid	UKG
TDT	Training Development Team	UKG
TE	Test Equipment	UKG, 4586
TEA	Transversely Excited Atmospheric laser	UKG
Technical Analysis	For the purpose of this standardization Technical Analysis is defined as the ability to describe precisely a feature, object or component imaged on a film.	ATP-47
Technical Architecture	A minimal set of rules governing the arrangement, interaction, and interdependence of the parts or elements whose purpose is to ensure that a conformant system satisfies a specific set of requirements. It identifies system services, interfaces, standards, and their relationships. It provides the framework, upon which engineering specifications can be derived, guiding the implementation of systems. Simply put, it is the "building codes and zoning laws" defining interface and interoperability standards, information technology, security, etc.	4586, 4609
TEFF	Turbine Engine Fatigue Facility	UKG
TEG	Tactical Exploitation Group	UKG, 4586, CASH
TEL	Transporter Erector Launcher	ATP-47, UKG, 4607
Television Imagery	Imagery acquired by a television camera and recorded or transmitted electronically.	4586, 4609
TEMP	Test and Evaluation Master Plan	CASH
TEMPEST	Telecommunications Electronics Material Protected from Emanating Spurious Transmissions	UKG
TENet	Theatre Extension Network	UKG
TEO	Technology Executive Officer	UKG
TER	Triple Ejection Rack	UKG

Term	Meaning	Source
Terminal	Equipment to convert user information into radio signals for transmission or to convert received radio signals into user information with any additional equipment required for the data link control function. User information includes sensor outputs, auxiliary data, recorded data, data formatted for recording, display inputs and commands.	7085
Terminal Data	Information on the status of a terminal (either airborne or surface) necessary for the management and operation of the link.	7085
TES	Tactical Exploitation System	UKG, 4586
TESAR	Tactical Endurance SAR	UKG
Text	Information conveyed as characters.	4545
TFCS	Theatre Formation Communications System	UKG
TFS	Transportable File Structure (ISO/IEC IS 12087-5)	4545
TGM	Technology Group Manager (ADR (Sys) for 02g32)	UKG
TGP	Tactical Ground Picture	UKG
TGS	Triglycerine Sulphate	UKG
TGSe	Triglycerine Selenate	UKG
Tgt (also TGT)	Target	4586, ATP-47, UKG
THAAD	Theatre High Altitude Area Defence	UKG
Thermal Imaging	The production of a visible two-dimensional image, that is a picture of a scene, by the detection of infrared radiation (thermal radiation) being emitted from the surfaces of the objects which make up the scene	UKG
Thermoelectric cooling	A cooling technique which exploits the "Peltier Effect" by which current flows across a junction between two dissimilar metals causing one metal to heat while the other cools	UKG
Thld	Threshold	7085
thumbnail	A small image	UKG
TI	1) Thermal Imagery 2) Thermal Infrared	1) UKG 2) 4545
TIALD	Thermal Imaging And Laser Designation	UKG
TIARA	Tactical Intelligence And Related Activities	UKG
Tick	The user defined unit of time for the system.	7023
TICM	Thermal Imaging Common Module	UKG
TID	Target Identification Device	UKG
TIDAS	Tempest Installation Authority	UKG
TIFF	Tagged Image File Format	UKG
TIGDL	Tactical Interoperable Ground Data Link	UKG, CASH
TIL	Thermal Imagery Library	UKG
Tile	1) Synonymous with block. 2) A rectangular area of a frame described by the number of lines and the number of samples per line.	1) 4545 2) 7023
TIM	Technical Interchange Meeting	UKG
time code signal	The magnetization pattern or association information recorded into the time code track; also, the longitudinal record where data timing information may be found.	7024
time code track	The longitudinal track closest to the reference edge of the tape.	7024

Term	Meaning	Source
Time Division Multiplex (TDM)	A method of deriving two or more apparently simultaneous channels from a given frequency spectrum of a transmission medium connecting two or more points by assigning discrete time intervals in sequence to each of the individual channels. During a given time interval the entire available frequency spectrum can be used by the channel to which it is assigned. (FED-STD-1037B)	7085
Time tag	A counter used by the system. The Tick sets the incremental rate. Used for time sequencing data.	7023
Time-out	An event that occurs at the end of a predetermined period of time that began at the occurrence of another specified event. The time-out can be prevented by an appropriate signal. (FED-STD-1037B, Definition 2)	7085
TIRRS	Tornado Infra-Red Reconnaissance System	ATP-47, UKG
TISG	Transportable Imagery Support Group	UKG
TL&RS	Tactical Launch and Recovery Study	UKG
TLA	Three-Letter Acronym	UKG
TLAM	Tomahawk Land Attack Missile	UKG
TLE	Target Location Error	4607
TIm	Telemetry	4586
TM	1) Target Material 2) Technical Memo 3) Telemetry	1) ATP-47 2&3) UKG
TMAP	Technical and Military Advice Panel	UKG
TMD	Theatre Missile Defence	UKG
TMDE	Test, Measurement, and Diagnostic Equipment	4586
TMHS	Tactical Message Handling System	UKG
TML	Truck Mounted Launcher	UKG
TMP	Technology Master Planning	UKG
TMT	Theatre Missile Tracker	UKG
TNA	Training Needs Analysis	UKG
TOA	Time Of Arrival	UKG, 4586
TOC	Tactical Operations Centre	UKG
TOIL	Time Off In Lieu	UKG
TOL	Take-Off and Landing	UKG
tolerance zones	Narrow zones established to contain completely the track centerlines of six consecutive helical tracks, as defined in 4.8.	7024
TOO	Target Of Opportunity	UKG
TOR	Terms of Reference	UKG
TOT	Time on Target	ATP-47, UKG
TPXCD	Pad Output Pixel Code	4545
TPXCDLNTH	Pad Output Pixel Code Length	4545
TRACER	Tactical Reconnaissance Armoured Combat Equipment Requirement	UKG
track	A narrow, defined area on tape along which a series of magnetic signals may be recorded.	7024
Track Identification Pattern	The sector preamble and postamble identification pattern consists of four consecutive 9 bit symbols which provides unique labeling of each track recorded on tape	7024
Track Positioning Signal	A data sequence or tone recorded on the helical track which is used for alignment of the rotary heads with recorded helical tracks	7024

Term	Meaning	Source
track set	Four consecutive helical tracks of proper azimuth containing four sequential sectors with the same track set ID encoded into their preambles, representing the minimum amount of information recordable or reproducible to/from tape.	7024
track set ID	A common identifier, for four consecutive helical tracks, recorded below the start of these tracks as part of the control record.	7024
Tracking	Tracking is the accurate location and updating of target positions (in terms of geographic co-ordinates) by radar optical or other means.	4586
Tracks	Objects consisting of a set of target reports.	4607
Trade-off	The determination of the optimum balance between system characteristics (cost, schedule, performance and supportability).	UKG
Training Needs Analysis	The identification of training requirements and the most cost effective means of meeting those requirements.	UKG
TRANSEC	Transmission Security	UKG
Transmittance	The ratio of the radiant power transmitted by an object to the incident radiant power falling on the surface of the object	UKG
TRANSOP	Transport Operations Order	UKG
Transparent Pixel	A pixel whose sample values must be interpreted for display such that the pixel does not obscure the display of any underlying pixel.	4545
Transversely Excited	A laser source that uses an electrical	UKG
TRD	Towed Radar Decoy	UKG
TRE	Tagged Record Extension	4545, 4607
TREF	1) Tornado Reconnaissance Exploitation Facility 2) Transportable Reconnaissance Exploitation Facility	1) ATP-47, UKG 2) UKG
TRF	Turbine Research Facility	UKG
TRIAD	Synergistic use of NIMROD R, ASTOR and E3-D to provide comprehensive coverage of the battlespace.	UKG
Triglycerine Selenate	A pyroelectric material	UKG
Triglycerine Sulphate	A pyroelectric material	UKG
TRIPS	Tactical Real Time Image Processing Spectrograph	UKG
TriTAC	Tri-Service Tactical Communications	UKG
TRN	Terrain Relief Navigation	UKG
TRR	Test Readiness Review	UKG
TS	1) Text Segment 2) MPEG-2 Transport Stream	1) 4545 2) 4609
TSPI	Time-Space-Position-Information	UKG
TSRP	Time Stress Measurement Device	UKG
TST	Technical Support Team	4609, UKG
TTL	Transistor-Transistor Logic	UKG
TTO	Technology Transition Office	UKG
TTPF	Target Transform Probability Function	UKG
TTR	Time to Repair	UKG
TTS	Time to Support	UKG
TTW	Transition To War	UKG
TUAV	Tactical UAV	UKG, 4586, 4609
TUAVR	Tactical Unmanned Air Vehicle Radar	UKG
TUM	Truck Utility Medium	UKG

Term	Meaning	Source
Tunable Laser	Any laser, for example a dye laser, having an output that can be adjusted over a range of wavelengths	UKG
Turn-around-time	Turn-Around-Time (TAT) is the time required to ready an AV for flight following recovery. TAT includes refueling, loading or reloading the mission plan and positioning of the AV for launch.	4586
TV	Television	UKG, 4586, 4609
TVC	Trapped Vortex Combustion	UKG
TVM	Navigator's Cockpit Display	UKG
TVTAB	Navigator's Cockpit Display Input Keys	UKG
TW/AR	Threat Warning/Attack Reporting	UKG
TWACN	Theatre Wide Area Communications Network	UKG
TWT	Travelling Wave Tube	UKG
Tx (also TX)	Transmit (ter)	UKG, 4586, 4609
TXSHD	Text Extended SubHeader Data	4545
TXTFMT	Text Format	4545
U		
U8S	UTF-8 Subset	4545
UARV	Unmanned Aerial Reconnaissance Vehicle	UKG
UAST	Unit Air Staff Table	UKG
UAV	1) Unmanned Aerial Vehicle 2) Unmanned Aerospace Vehicle 3) Unmanned Air Vehicle 4) Uninhabited Aerial Vehicle	1-3) UKG 1&4) 4586, 4609 1) 4607, CASH 3) 7085
UAV system	The term "UAV system" includes the air vehicles, modular mission payloads, data links, launch and recovery equipment, mission planning and control stations, data exploitation stations and logistic support.	4586
UAVS	Unmanned Air Vehicle System	UKG
UB	Unified Build	4586
UCARS	UAV Common Automated Recovery System	4586
UCAV	1) Unmanned Combat Air Vehicle 2) Uninhabited Combat Aerial Vehicle	UKG, 4586, 4609
UCO	Universal Common Object	4586
UCP	Universal Communications Processor	4586
UCS	1) UAV control system - the functional set charged with control of the AV and interfacing with C4I and the UAV and payload operator. UCS includes all the UAV control systems and encompasses specific features. 2) Universal Multiple Octet Coded Character Set	1) UKG, 4586 2) 4545, 4575
UDD	User Defined Device	CASH
UDHD	User-Defined Header Data	4545
UDHDL	User-Defined Header Data Length	4545
UDID	User-Defined Image Data	4545
UDIE	Universal Data Import and Export	4586
UDP	User Datagram Protocol	UKG, 4586, 4607
UDS	User Data Service	UKG
UDT	User Data Terminal	UKG
UES	UAV Exploitation System	4586
UFC	Unique Configuration File	7085
UHF	Ultra High Frequency (the military UHF band is 225 to 400 MHz)	UKG, 4586, 7085
UHR	Ultra High Resolution (Radar)	UKG
UI	Unnumbered Information	7085

Term	Meaning	Source
UIS	Unit Interface Specification	UKG
UJTL	Universal Joint Task List	4586
UK	United Kingdom	UKG
UK ACCS	UK Air Command and Control System	UKG
UKADGE	UK Air Defence and Ground Environment	UKG
UKINCA	United Kingdom INCA	UKG
UKMIST	UK Military Intelligence Support Terminal	UKG
UKMSCS	(UK) Military Satellite Communication System	UKG
Ultraviolet	A region of the electromagnetic spectrum with wavelength just shorter than the visible violet wavelength. Wavelengths of approximately 100 to 380 nm	UKG
UMA	UnManned Aircraft	UKG
UN	United Nations	4545
Unit	Battlegroup or other independent combat element working for the Formation Commander.	UKG
Universal Multiple Octet Coded Character Set (UCS)	The Universal Multiple Octet Coded Character Set (UCS) is used for expressing text that must be human readable, potentially in any language of the world. It is defined in ISO/IEC 10646-1.	4545
Universal Multiple Octet Coded Character Set (UCS) Transformation Format 8 (UTF-8)	UTF-8 is a coded representation form for all of the characters of the UCS. In the UTF-8 coded representation form each character from this UCS has a coded representation that comprises a sequence of octets of length 1, 2, 3, 4, 5, or 6 octets.	4545
Universal Multiple Octet Coded Character Set (UCS) Transformation Format 8 (UTF-8). Subset (U8S)	A Subset of the UCS composed of 1-byte and 2-byte UTF-8 encoded characters (Basic Latin and Latin Supplement 1). The 1-byte encoded characters of the UTF-8 Subset (U8S) are the BCS characters. The 2-byte encoded characters of U8S are described in Table C-3-2.	4545
Universal Polar Stereographic (UPS)	A pair of grids, one used north of 84° north and one used south of 80° south. Each grid is based on the polar stereographic projection. The actual grid depends on the choice of the geodetic datum.	4545
Universal Transverse Mercator (UTM)	A system of grids for global use between latitudes 84 degrees North and 80 degrees South. The range of longitudes 180 degrees West to 180 degrees East is divided into 60 zones, each of which is a grid based on the Transverse Mercator projection. (Within each zone, there is a difference in coordinate systems either side of the Equator. On the northern side, northings start from zero at the Equator; on the southern side, northings are positive rising to 10 million at the Equator.) The actual grid depends on the choice of geodetic datum as well as the zone.	4545
UNIX	A computer operating system	UKG

Term	Meaning	Source
Unmanned Aerial Vehicle	1) A powered, aerial vehicle that does not carry a human operator, uses aerodynamic forces to provide vehicle lift, can fly autonomously or be piloted remotely, can be expendable or recoverable, and can carry a lethal or nonlethal payload. Also called a UAV. 2) A UAV is an aircraft designed from the outset to be flown without an on-board pilot. (This excludes converted manned aircraft which are designed initially to Def Stan 00-970 Volume 1 or equivalent requirements, then converted for drone use following existing approval procedures). The UAV is aerodynamically supported.	1) 4586, 4609 2) UKG
Unmanned Air Vehicle System	A UAV system comprises all those surface borne and airborne elements necessary to achieve the specified operational objectives. It will be commanded by an internal system and/or by an external command link.	UKG
UPG	Unit Programmers Guide	UKG
UPS	Uninterruptible Power Supply	4586
URD	User Requirements Document	UKG
URL	Uniform Resource Locator	UKG, 4586
URR	Ultra-High-Range Resolution	4607
US	United States (of America)	UKG, 4586, 4545, 4609
USAF	United States Air Force	ATP-47, UKG
USD	Under Secretary of Defense	CASH
user data	Information of primary importance, of which four consecutive portions of 36 108 bytes each are destined for the four consecutive sectors of a track set, in corresponding order.	7024
USIGS	United States Imagery and Geospatial Systems	UKG, CASH
USIS	1) United States Imagery Standards 2) United States Imagery Systems	1) 4586 2) CASH
USMTF	United States Message Test Format	CASH
USR	Unit Software Requirements	UKG
USS	Unit Summary Sheet	UKG
UT1	UCS Transformation Format 1 (1-Octet Coded UCS Characters)	4545
UTA	USIGS Technical Architecture	UKG
UTC	1) Universal Time Code 2) Universal Time Coordinated 3) Universal Time Code Coordinated	1) UKG, 4545 2) 7023, 4607 3) 4609
UTF	UCS Transformation Format	4545
UTM	Universal Transverse Mercator	ATP-47, UKG, 4586, 4545, 4607
UTS	Unit Test Summary	UKG
UV	Ultraviolet	UKG
V		
V x H Kernel	For a vector quantized image, a rectangular group of pixels (kernels) with v-rows and h-columns.	4545
V/H	Velocity to Height ratio (Used to correct sensor geometry.)	ATP-47, UKG, 7023
V/STOL	Very Short Takeoff and Landing	UKG
Validation test	A test conducted to show that a standard or change to a standard is accurate, complete, and understandable	AEDP-2

Term	Meaning	Source
Variable Parameters	A set of parameters whose values may be changed during a mission (see Section 3.2.4).	7085
VAT	Value Added Tax	UKG
VB	Visual Based	UKG
VBL	Vertical Bloch Line	UKG
VC	Vortex Combustor	UKG
VCATS	Visually Coupled Acquisition and Targeting System	UKG
VCE	Variable Cycle Engine	UKG
VCR	Video Cassette Recorder	ATP-47, UKG, 4586, 4609
VD	Video	4545
VDC	Virtual Display Coordinates	4545
VDL	VHF Data Link	UKG, 4586
VDU	Visual Display Unit	UKG
VE	Virtual Environment	UKG
Vector Quantization (VQ)	A structuring mechanism in which many groups of pixels in an image are replaced by a smaller number of image codes. A clustering technique is used to develop a code book of best fit pixel groups, or kernels, to be represented by the codes. A form of compression is achieved because the image codes can be recorded using fewer bits than the original pixel groups they represent.	4545
VEL	Visual Electrodiagnostic Laboratory	UKG
VFDR	Variable Flow Ducted Rocket	UKG
VFR	Visual Flight Rules	UKG
VHDLVHSIC	Hardware Design Language	UKG
VHF	Very High Frequency (the military VHF band is 30 to 88 MHz)	UKG, 4586, 7085
VHS	1) Video Home System 2) Verical Helical Scan	1) UKG 2) 4609
VHSIC	Very High Speed Integrated Circuit	UKG
Video Imagery	A sequence of images, with metadata, which is collected as a timed sequence of images in standard motion imagery format, managed as a discrete object in standard motion imagery format, and displayed as a sequence of images. Video imagery is a subset of the class of motion imagery.	4586, 4609
IEWS	Video Exploitation Workstation	UKG
VIS	Visible Imagery	4545
Visible Spectrum	That region of the electromagnetic spectrum between infrared and ultraviolet, with wavelength 400 to 750nm. It is the waveband to which the retina of the eye is sensitive and by which the eye sees	UKG
VISP	Video Imagery Standards Profile	UKG
VISTA	Variable-Stability In-Flight Simulator Test Aircraft	UKG
VITC	Vertical Interval Time Code	4609, UKG
VLA	Very Large Array	UKG
VLD	Virtual Look Direction	7023
VLF	Very Low Frequency	UKG
VLL	Very Low Level (Altitude)	UKG
VLO	Very Low Observable (Stealth)	UKG
VLSI	Very Large Scale Integration	UKG
VM	Verification Model	UKG

Term	Meaning	Source
VMAP	Vector Map	UKG, 4586
VMC	Visual Meteorological Conditions	ATP-47
VME	Versa Modula Equipment	UKG
VMF	Variable Message Format	UKG, 4586
VMF TIDP	Variable Message Format Technical Interface Design Plan	UKG, 4586
VOC	Volatile Organic Compounds	UKG
VPF	Vector Product Format	UKG
VPH	Video Phase History	4545, 4607
VPH data	The radar data representing the magnitude and phase of the radar returns over a physical area that can be converted to an image either of a moving target or the background.	4607
VQ	Vector Quantization	4545
VRAM	Video RAM	UKG
VRG	Vertical Reference Gyro	UKG
VRN	Vehicle Registration Numbers	ATP-47
Vsize	For a vector quantized image, the size of the kernel in pixels.	4545
VSM	Vehicle Specific Module	4586
VSS	Vulnerability and Survivability Study	UKG
VSSP	Vulnerability and Survivability Study Plan	UKG
VTB	Vestibular Test Battery	UKG
VTOL	Vertical Take Off and Landing	UKG, 4586
VWG	Video Working Group	UKG
W		
W	Watt	UKG
WAG	Wild Arse Guess	UKG
WAM	Workload Assessment Monitor	UKG
WAN	Wide Area Network	UKG, 4586
WAS	1) Wide Area Subsystem 2) Wide-Area Surveillance	1) 4586, 4559 2) 4607
Waveform Polarity	The state of the codeword waveform at any specific time as denoted by “-” when the waveform is low and “+” when the waveform is high	7024
Waveform Polarity Inversion	The polarity at the end of the codeword waveform that is opposite the polarity at the beginning of the codeword waveform. A waveform polarity inversion is caused by an odd number of “1s” in the nine-bit NRZI codeword.	7024
Waveguide Laser	In this type of laser the lasing medium is a gas mixture containing carbon dioxide which flows through a waveguide tube. The wavelength of laser light emitted is 9 to 11 æm. Applications include materials working, surgery and laser radar]	UKG
WAVES	Waveform and Vector Exchange Specifications	UKG
Waypoint Control	Semi-autonomous or man-in-the-loop method of air vehicle control involving the use of defined points (latitude/longitude/altitude) to cause the UAV (air vehicle, sensor(s), or onboard systems) to accomplish certain actions.	4586
WB	Wide Band	UKG, 4586
WBDL	Wide Band Data Link	UKG, 4586
WBMOD	Wide-Band Scintillation Model	UKG

Term	Meaning	Source
WBS	Work Breakdown Structure	UKG, 4586
WCO	Weapon Control Officer	UKG
WEA	Weapons Effectiveness Assessment	ATP-47
WEE	Waste from Electrical and Electronic Equipment	UKG
WFE	Warfighting Experiment	UKG
WFOV	Wide Field Of View	UKG
WGS	World Geodetic System (NIMA TR8350.2)	4545
WGS-84	World Geological Survey-84	4607
Wide band link	A wide band link is considered to be a link with bandwidth up to 10 Mb/s	4586
WIDS	Working Imagery Data Store	UKG
WIMPS	Windows Icons Mouse and Pointers	UKG
WIND	Air Wind Charts	4545
WLC	Whole Life Costs	UKG
WLR	Weapon Locating Radar	UKG
WMED	World Mean Elevation Data (Map Data Format)	UKG
WOC	Wing Operation Centre	UKG
WORM	Write Once Read Many. A type of optical disk for data storage.	UKG
WP	Waypoint	UKG, 4586
WPN	Weapon	UKG
WRA	Weapon Release Authority	UKG
WS	WorkStation	UKG
WVR	Within Visual Range	UKG
WVS	World Vector Shoreline (Map Data Format)	UKG
X		
X.25, X.224	Transmission protocols often used for lower levels of OSI	7085
XHD	Extended Header Data	4545
XHDL	Extended Header Data Length	4545
XID	EXchange IDentification	7085
XML	Extensible Markup Language	4609
XRAY	Xrays	4545
XRL	X-Ray Laser	UKG
XRS	Subsystem Requirements Specification	UKG
Y		
Y2K	Year 2000	UKG
YAG	Yttrium Aluminium Garnet	UKG
YAG Laser	A solid-state laser using yttrium aluminium garnet as the matrix material, doped with neodymium (Nd:YAG). The YAG laser emits laser light of wavelength 1.064 æm. Applications include materials working, communications, surgery, holography and laser radar	UKG
YCbCr601	1) Y for Brightness of signal, Cb for Chrominance (blue), Cr for Chrominance (red) (ITU-R RECMN BT.601-5) 2) Luminance Chrominance Colour Space in accordance with CCIR601	1) 4545 2) 7023
Z		
Z	Zulu (Greenwich Mean) Time	UKG
Zinc Sulphide	A polycrystalline material that transmits in the infrared	UKG
ZULU	Zero Meridian	4545

Data Dictionary

1.0 INTRODUCTION

This Annex defines the relationships between the metadata elements of the primary data format standards of the NIIA. The intent is to show how the data elements can be mapped from one standard to another.

2.0 DATA DICTIONARY

2.0.1 The formal data dictionary for metadata to be used with the NIIA will from the ISO TC211 suite of standards, to include, but not limited to 19115:2003, 19115-2 and 19130. It is anticipated that the NIIA will have data dictionary elements and definitions in addition to the ISO elements. These elements will be harmonized with the Digital Geographic Information Working Group (DGIWG) and stored in a registry available to all NATO members. The ISO UML descriptions of this metadata will be managed by ISO TC211 and the NIIA extensions will be managed within NATO. An implementation model, including an XML schema will be from the ISO 19139 and 19139-2 and managed within the **spatial metadata eXtensible Markup Language (smXML)** namespace by ISO. NIIA schema extensions to smXML will be managed within NATO. The latest versions of these documents will be the authoritative reference for metadata descriptions.

2.0.2 While these documents are the general references for metadata, the specific data fields defined in the format standards on the NIIA (STANAGs 4545, 4607, 4609, and 7023) are to be used within the constructs defined in those respective standards.

2.1 Data Element Mapping

The data elements of STANAGs 4545, 4607, and 7023 are related in that they contain similar information. The following tables in Appendix 1 show the relationships between the data elements of these format standards.

3.0 CONCLUSIONS

Data elements used in the NIIA are comparable to those used in many communities that have airborne platforms collecting data. It is important for users of the NIIA to understand the relationships between the data elements used.

APPENDIX 1 ANNEX B

ANALYSIS OF DATA ELEMENTS

The following table includes the primary header data elements of the three major data formats and compares the name, content, and format of each field. This information is provided to define the level of consistency of the data elements, and provides the initial mapping of data elements from one format to another.

It is evident from this listing how the three formats differ. Each was created for different applications and the data elements reflect these differences. STANAG 4545 was intended as primarily an image format using distinct files. The location data is keyed to the pixels in the image and therefore platform position and pointing information is generally not required (although it can be included through the use of extensions). STANAG 4607 is intended primarily for ground moving target indication in a wide area surveillance mode. As such, the target information contains target reports and does not include preplanned target basic encyclopedia (BE) numbers. STANAG 7023 is again intended for imagery, but covers unprocessed imagery from the platform and sensor. As such, it has the platform position and pointing information of 4607, and the image information of STANAG 4545.

It is intended that this information is provided for general reference only and is not intended to provide the definitive mapping of data elements. If a translation device is to be developed, it should be recognized that different mapping of data elements is possible and should be considered. In addition, data fields are not to be interpreted in the same way for each format. For example, the coordinates in a STANAG 4545 file represent the corners of the image, while the coordinates in 4607 are for target report locations, and the coordinates in 7023 are for the platform and must be converted through the sensor geometry model to image locations. If a different mapping is chosen, it is recommended that this mapping be documented in a similar fashion and provided to the NATO Intelligence, Surveillance, and Reconnaissance (ISR) Interoperability Architecture (NIIA) community.

DATA FIELD MAPPING

Data Element	STANAG 4545		STANAG 4607 (draft)		STANAG 7023	
	Field Name	Characteristics	Field Name	Characteristics	Field Name	Characteristics
File Descriptor	FHDR/FVER STYPE	9 AN 4 AN	P1-version P2-edition	3 AN 2 AN	Packet Sync Header F1- Edition Number	10 UB 1 TN
Complexity Level	CLEVEL	2 TN	D1-existence mask Note that each segment contains an existence mask which defines which fields are included in the file.	8 FL		Note: 7023 is a self describing file. Recipients are required to establish from the file descriptors whether the data can be handled.
Originator	OSTAID	10 AN	P4-nationality P9-platform ID	3 AN 3 IN	Requester F5- Requester Code Requester F7- Address	6 AN 512 AN

Characteristics columns use the following codes: Numbers reflect the number of bytes in the field. A "V" in place of the number means that the length of the field is variable. TN = Textual numeric value; AN = Alphanumeric value; UB = Unsigned binary value; SB = Signed Binary; US = User Selected or defined in specific extension; IN = Integer Numeric (binary value with 1 or more bytes length); SI = Signed Integer; EN = Enumerated; FL = Binary Flags

Data Element	STANAG 4545		STANAG 4607 (draft)		STANAG 7023	
	Field Name	Characteristics	Field Name	Characteristics	Field Name	Characteristics
File date and time	FDT	14 TN (CCYY MMDD hhrmss)	M5-year M6-month M7-date D6 or T3-dwell time Note that the Dwell Time fields, D6 and T3, are obtained as the count in milliseconds from the time 00:00:00 UTC of this date.	2 IN 1 IN 1 IN 4 IN	Gen Admin F2- Mission Start Time Min Dyn Plat F1 A/C Time	8 UB 8 UB Note: - DTG is encoded as unsigned binary - All packets are defined by the time code contained in the packet header, with time incrementally counted from the mission reference time.
File title	FTITLE	80 AN	M1-mission plan M2-flight plan	12 AN 12 AN	Air Task F1- Air Task Order	7 AN

Characteristics columns use the following codes: Numbers reflect the number of bytes in the field. A "V" in place of the number means that the length of the field is variable. TN = Textual numeric value; AN = Alphanumeric value; UB = Unsigned binary value; SB = Signed Binary; US = User Selected or defined in specific extension; IN = Integer Numeric (binary value with 1 or more bytes length); SI = Signed Integer; EN = Enumerated; FL = Binary Flags

Data Element	STANAG 4545		STANAG 4607 (draft)		STANAG 7023	
	Field Name	Characteristics	Field Name	Characteristics	Field Name	Characteristics
File security classification	FSCLAS Note: 1) If value is anything other than U, the next 17 fields must be properly completed – otherwise fill with <spaces>. 2) NSIF repeats most of these fields for each segment.	1 AN (T, S, C, R, U) 176 AN	P5-classification P6-class. system P7-class. code P8-history tag	1 AN 2 AN 8 AN 3 IN	Mis Sec F1-Sec Classification Mis Sec F2-Date Mis Sec F3-Auth Mis Sec F4-Downgrade	64 AN 8 UB 60 AN 1024 AN
Encryption	ENCRYP	1 TN				
File background color	FBKGC	3 UB				
Originator	ONAME OPHONE	24 AN 18 AN	F1-originator	10 AN	Col Plat ID F1-Squadron Col Plat ID F2-Wing Col Plat ID F3-A/C type Col Plat ID F4-Tail Number	6 AN 4 AN 16 AN 6 AN
File length	FL	12 TN	P3-packet size	2 IN	Header F6- Data File Size	4 UB
File header length	HL	6 TN			[Fixed]	[32 UB]

Characteristics columns use the following codes: Numbers reflect the number of bytes in the field. A "V" in place of the number means that the length of the field is variable. TN = Textual numeric value; AN = Alphanumeric value; UB = Unsigned binary value; SB = Signed Binary; US = User Selected or defined in specific extension; IN = Integer Numeric (binary value with 1 or more bytes length); SI = Signed Integer; EN = Enumerated; FL = Binary Flags

Data Element	STANAG 4545		STANAG 4607 (draft)		STANAG 7023	
	Field Name	Characteristics	Field Name	Characteristics	Field Name	Characteristics
Number/Size of Image Segments	NUMI	3 TN				
	LISHn	6 TN				
	Lin	10 TN				
Number/Size of Graphic Segments	NUMS	3 TN				
	LSSHn	4 TN				
	LSn	6 TN				
Number/Size of Text Segments	NUMT	3 TN	F3-free text	V US	Rqst Rem F1	1024 AN
	LTSHn	4 TN			Tgt Rem F1	1024 AN
	LTn	5 TN				
Number/Size of Data Extension Segments	NUMDES	3 TN				
	LDSHn	4 TN				
	LDn	9 TN				
Number/Size of Reserved Segments	NUMRES	3 TN				
	LRESHn	4 TN				
	LRn	7 TN				
Number/Size of User Defined or Extended Data	UDHDL	5 TN			User Def Data	V US
	UDHOFL	3 TN				
	UDHD	V US				
	XHDL	5 TN				
	XHDLOFL	3 TN				
XHD	V US					
Image identification	IID1†	10 AN	P10-mission ID	10 AN		
	IID2†	80 AN	P11-job ID	3 IN	Note: Individual images are not explicitly named, but source is encoded into the header address field.	

Characteristics columns use the following codes: Numbers reflect the number of bytes in the field. A "V" in place of the number means that the length of the field is variable. TN = Textual numeric value; AN = Alphanumeric value; UB = Unsigned binary value; SB = Signed Binary; US = User Selected or defined in specific extension; IN = Integer Numeric (binary value with 1 or more bytes length); SI = Signed Integer; EN = Enumerated; FL = Binary Flags

Data Element	STANAG 4545		STANAG 4607 (draft)		STANAG 7023	
	Field Name	Characteristics	Field Name	Characteristics	Field Name	Characteristics
Target identification	TGTID†	17 AN (reflects BE number, facility number, and country code BBBBBBBBBB OOOOOCC)	D5-target report count D32.10-target classification	2 IN 1 EN	Tgt Data F1- Tgt Type Tgt Data F3- BE Number Tgt Data F11- Tgt Name Tgt Loc Table	1 UB 16 AN 32 AN 49 UB + 22 AN
Image source	ISORCE†	42 AN	M3-platform type M4-platform configuration	1 EN 10 AN	Sensor ID Table F2-5	1 UB + 32 AN + 1 EN
Image size	NROWSt NCOLSt	8 TN 8 TN			Sensor Description Table F1-9	56 UB
Pixel type	PVTYPE† NBPP† ABPP† PJJUST†	3 AN 2 TN 2 TN 1 AN			Sensor Description Table F10	2 UB
Image type and characterization	IREPT ICAT†	8 AN 8 AN			Sensor ID F1	1 EN

		STANAG 4545		STANAG 4607 (draft)		STANAG 7023	
		Field Name	Characteristics	Field Name	Characteristics	Field Name	Characteristics
Image location	ICORDSt IGEOLoT Note: NSIF allows coordinates in DMS, decimal degrees, or UTM/UPS, using WGS-84	1 AN 60 AN Note: these fields are for general reference – specific geo reference information is provided in extensions for accurate geo location.	D22-dwell center latitude D23-dwell center long. D24-range half extent D25-cross range Half extent Note: Also includes specific target locations in the target reports, D32.2-D32.6	3 SB (angle) 3 UB (angle) 2 UB 1 IN (angle)		Note: NPIF locations are for the platform and must be transformed to image locations through the sensor geometry model.	
Image comments	NICOM† ICOM†	1 TN 80 AN					
Image compression	IC† COMRAT†	2 AN 4 AN			Sen Comp F1	1 UB	
Band information	NBANDSt XBANDSt IREPBANDnt ISUBCATnt	1 TN 5 TN 2 AN 6 AN			Sen Descrip F11	2 UB	
Image Functionality (filters, look up tables, etc.)	IFCnt IMFLTnt NLLUTSnt NELUTnt LUTDnm†	1 AN 3 AN 1 TN 5 TN V US			Sen Calibration Table	8 UB (DTG) 91 AN	
Image synchronization	ISYNCT (field not used)	1 TN			Header F9	1 EN	

Characteristics columns use the following codes: Numbers reflect the number of bytes in the field. A "V" in place of the number means that the length of the field is variable. TN = Textual numeric value; AN = Alphanumeric value; UB = Unsigned binary value; SB = Signed Binary; US = User Selected or defined in specific extension; IN = Integer Numeric (binary value with 1 or more bytes length); SI = Signed Integer; EN = Enumerated; FL = Binary Flags

Data Element	STANAG 4545		STANAG 4607 (draft)		STANAG 7023	
	Field Name	Characteristics	Field Name	Characteristics	Field Name	Characteristics
Mode/ Interleaving	IMODE†	1 AN	J13-radar mode	1 EN	Sensor Descrip F12	1 EN
Image blocking	NBPR† NBPC† NPPBH† NPPBV†	4 TN 4 TN 4 TN 4 TN			(Part of sensor description in geometry model)	
Multi-element file correlation (display layering, relative location, relative magnification)	IDLVL† IALVL† ILOCT† IMAG†	3 TN 3 TN 10 TN 4 AN	Note: correlation of multiple elements in the file is performed by use of the job and/or dwell index and the dwell time.		Note: correlation of multiple elements in file is performed by use of the segment number, timing code, source address, data file address, and data file number.	
Platform/Sensor Location			D7-latitude D8-longitude D9-lo-res lat. D10-lo res long. D11-altitude (format also includes uncertainty values)	4 SB (angle) 4 UB (angle) 3 SB (angle) 3 UB (angle) 3 SB	Min Dyn Plat F2 Seg Index F7-8	16 UB 32 UB
Sensor track			D15-sensor track	2 UB (angle)	Min Dy Plat F8- (Comp Dy F8) A/C true course	8 UB

Characteristics columns use the following codes: Numbers reflect the number of bytes in the field. A "V" in place of the number means that the length of the field is variable. TN = Textual numeric value; AN = Alphanumeric value; UB = Unsigned binary value; SB = Signed Binary; US = User Selected or defined in specific extension; IN = Integer Numeric (binary value with 1 or more bytes length); SI = Signed Integer; EN = Enumerated; FL = Binary Flags

Data Element	STANAG 4545		STANAG 4607 (draft)		STANAG 7023	
	Field Name	Characteristics	Field Name	Characteristics	Field Name	Characteristics
Sensor velocity			D16-sensor speed	3 IN	Min Dy Plat F6- (Comp Dy F6) True airspeed Min Dy Plat F7- (Comp Dy F7) Ground speed	8 UB 8 UB
Sensor vertical velocity			D17-sensor vertical velocity	1 SI	Comp Dy F15- Velocity down	8 UB
Platform Heading			D21-platform heading	2 UB (angle)	Min Dy Plat F9 (Comp Dy F9) True heading	8 UB
Sensor Heading			D26-sensor heading	2 UB (angle)	Gim Att F1	8 UB Note: Detailed modeling of the sensor and gimbals is included in format.
Sensor Pitch			D27-sensor pitch	2 SB (angle)	Gim Att F2	8 UB
Sensor Roll			D28-sensor roll	2 SB (angle)	Gim Att F3	8 UB
Intended Recipient			F2-recipient ID	10 AN	Gen Admin F5 Requester Data Table	1 UB 838 AN + 3 EN + 8 UB (DTG)

Notes:

- 1) STANAG 4545 uses multiple alphanumeric character sets, including binary character set encoding, message text format encoding, and some legacy character sets such as the extended character set.

- 2) † = STANAG 4545 fields in Image Segment Header; other STANAG 4545 fields are in File Header.
- 3) STANAG 4607 draft is taken from the 3 Jan 02 version. Headers used for each field are identified by the alpha character(s) preceding the field name.
- 4) STANAG 7023 fields are defined by the table in which they are located and the field number.

Data Element Hierarchy

The following table reflects the section/subsection definitions in each STANAG. The hierarchy in each standard is defined in the introductory paragraphs of the standard.

STANAG 4545		STANAG 4607		STANAG 7023		
File		Packet		Record		
Header	Segment	Mission		Segment		
	Subheader	Job		Packet		
Field Character	Data	Segment	Revisit	Sync	Data	
	Block	Dwell	Dwell	Data can be format descriptions, sensor parameters, platform, or mission information		
	Pixel	Target Rpts	HRR	CPI		
			Scat	Radar Pulses		

Data Order

The following table shows the nominal data order for the data stream of file.

STANAG 4545		STANAG 4607	STANAG 7023	
Image Segment	File Header Image Subheader Image Data	Packet Header Segment Header Segment Data	Segment 0 Segment 1 Packet 1 Packet 2 ...	Preamble Packet 1 Packet 2 ...
Graphics Segment	Graphics Subheader Graphic Data (None)	Segments can be in any order and of the following types: - Mission Segment - Dwell Segment - HRR Segment - Range Doppler Segment - Job Definition Segment - Free Text Segment - LRI Segment - Group Segment - Attached Segment - Test and Status Segment - System Specific Segment - Processing History Segment - Job Request Segment - Job Acknowledge Segment	Segment 2 ...	Each Packet Includes: - Sync - Header - Data Each segment concludes with the "end of segment" marker and includes index tables.
Reserved Segments	Text Subheader Text Data		Segment n Packet n+1 ...	
Text Segments	DES Subheader DES Data		Segment x ...	Packet m Packet y
Data Extension Segments			...	
Reserved Extension Segments	(None)		End of Record Mark	
Reserved Extension Segments	Each segment type can be repeated as required up to the limits defined in the file header. All segments of a given type are included before any of the next type.			