



Systems

A collection of technical components organised to accomplish a specific function or set of functions.

Title	Description	Type	Related Elements
4DWxCube	Gathers and consolidates ATM relevant meteorological (MET) information from various sensors and...	System	
ACAS Monitoring	Consists of a set of distributed ACAS ground receiving stations and a central ACAS processing...	System	
ADS-B Ground Station	Receives the 1090 MHz SSR band signals from the Aircraft and converts them to reports in ASTERIX...	System	
Aerodrome ATC	Supports the ATC controllers at an aerodrome and provides the following main functionalities: ...	System	
AIM	Implements functionalities to collect, process, validate and verify, store, integrate, exchange...	System	
AIM (External)	Represents non-European Civil AIM systems contributing to the European ATM system	System	
Air Defence (External)	Represents the European national Air Defence organisations and systems. Includes Air Policing and...	System	
Aircraft	Represents the Aircraft (Civil or Military or UAV) operating from the end to end, on the airport...	System	
Airport Airside Operations	Supports the Airport operators in their airside activities related to ATM. It provides the...	System	
Airport Multilateration	Allows tracking of aircraft and ground vehicles located at the airport environment.	System	
Airport Operations Centre	Deals with the strategic and tactical management of airport operations in coordination with other...	System	
ASM	Implements the airspace design and management functions.	System	
ATC (External)	Represents the non-European ATC centres and systems contributing to the European ATM system.	System	
ATFCM	Supports the regional, sub-regional and local Air Traffic Flow and Capacity Management functions.	System	
ATM Security (Step 2)	Focused on cyber-security management. The system will support the collection, consolidated...	System	
BEIDOU (External)	Is Chinas second-generation satellite navigation system that will be capable of providing...	System	
Civil AU Aircraft Operations Centre	Manages and tracks the availability of the aircraft for the operations of the Airspace User.	System	
Civil AU Airport Operations Centre	Manages the relation to the airport with regard to the turnaround-related activities of the...	System	
Civil AU Business Operations Centre	Supports the Airspace Users in the management of the business aspects of its operations.	System	
Civil AU Cargo Operations Centre	Takes care about the cargo related processes of the Airspace User.	System	
Civil AU Crew Operations Centre	Takes care about the flight deck crew and the cabin crew.	System	
Civil AU Flight Operations Centre (FOC)	Supports Airspace Users performing manned or unmanned flight operations of civil aircraft (as...	System	
Civil AU Passenger Operations Centre	Takes care about the passengers and their baggage.	System	

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Data Radio Station	Enables air-ground data communication with aircraft via Datalink. The infrastructure combines...	System	
DME	Transmits a signal to enable aircraft to determine their positions. DME can be paired with VOR or...	System	
E-AMAN Common Service System	Provides the 'Arrival Sequence Approval' and 'Arrival Management Information' services in the...	System	
En-Route / Approach ATC	Gathers the ground based automated means, used in En-Route and Approach ATC Centres, to support...	System	
Enhanced MET Sensors	Comprises additional sensors that may be required to detect phenomena like thunderstorms,...	System	
GALILEO (External)	Is European own global navigation satellite system, providing a highly accurate, guaranteed...	System	
GBAS Ground station	Is a civil-aviation safety-critical system that supports local augmentation of the primary GNSS...	System	
GLONASS (External)	Is a space-based global navigation satellite system (GNSS) that provides reliable positioning,...	System	
GNSS Monitoring	Performance assessment system	System	
GPS (External)	Is the U.S Global Navigation Satellite System (GNSS) which provides free positioning and timing...	System	
Ground ATM Networks	Is the European IP-Based backbone network provides data and voice services and comprises PENS,...	System	
ILS	Provides precision approach and landing by broadcasting of the VHF (localiser) and UHF...	System	
MLS	Is a precision approach and landing guidance system which provides position information and...	System	
Multistatic Primary Radar	Is based on a sparse network of omnidirectional transmitters and receivers interconnected to a...	System	
NDB	Transmits a continuous signal on a frequency between 190 and 1750 kHz, which acts as a radio...	System	
Non-ATM MET (External)	Contains all the enablers contributing to the production of 'pure' MET information, when...	System	
Non-Aviation Users (External)	Represents various organisations/systems using data generated by the European ATM system. This...	System	
Primary Radar	Provides surveillance information of all aircraft regardless of their equipment. PSR civil radar...	System	
Routing Networking Equipment for A/G Datalink	Represents the ground segment of the A/G datalink infrastructure supporting both ACARS and ATN...	System	
SATCOM (External)	Enables the air-ground voice and data communication with aircrafts via satellites. It combines...	System	
SBAS	Are civil aviation safety-critical systems that support wide-area or regional augmentation though...	System	
Secondary Radar	Used for En-Route and Approach surveillance. It provides the position (range and bearing) of the...	System	
Sequence Management	Supports the ATS controllers in their decision making in the case of mixed mode operations on the...	System	
Standard MET Sensors	Provide parameters such as temperature, pressure, humidity, cloud base height, etc. are collected...	System	
State AU Wing Operations Centre (WOC)	Supports State Airspace Users (this term includes Military Airspace Users, Border Police Airspace...	System	

Title	Description	Type	Related Elements
Surface Movement Radar	Is a primary radar equipment specifically designed to detect aircraft and vehicles on the surface...	System	
SWIM Blue Profile	Supports the Flight Object services for information sharing between ER-APP-ATC Technical Systems...	System	
SWIM Certification Authority	Covers Certification Management, Registration Authority and Validation Authority. SWIM CA...	System	
SWIM Purple Profile	Developed to support the Air to Ground and Ground to Air service provision/consumption.	System	
SWIM Registry	Enables the retrieval of information (metadata) about the Services and the ATM information which...	System	
SWIM Security Token Identity Provider	Verifies, maintains, manages, and may create and assign identity information (Security Tokens...	System	
SWIM Yellow Profile	Enables the provision and consumption of Business to Business services for information sharing...	System	
TACAN	Is a Military Nav-aid (ground-based) which transmits a signal to provide information on range and...	System	
TELECOM (External)	Commercial Telecom providers Communication Systems	System	
Time Reference (External)	Technical Systems providing Time Reference to ensure that all ATM operations can be synchronised.	System	
Video Surveillance	Groups all the non-cooperative sensors that can be used for surface surveillance, such as: - ...	System	
Voice	Allows ATC controllers to exchange voice information with pilots and other ground personnel (ATC...	System	
Voice Radio Station	Enables voice communication between FOC, ATC and Aircraft. The infrastructure is generally...	System	
VOR	Is a navigation aid which transmits a radio frequency carrier. This is associated with two 30 Hz...	System	
Wide Area Multilateration	Provides real-time accurate and reliable identification an location of aircraft, ground vehicles...	System	