

# **Europe A-CDM FIXM Extension v1.0**

## **Data Dictionary for Technical People**

The Flight Information Exchange Model (FIXM) is an exchange model capturing Flight and Flow information that is globally standardised. It supports, like AIXM and WXXM, a "core + extension" mechanism: the core part contains the pieces of flight information that are globally recognised and which are endorsed by the FIXM CCB, while extensions supplement the core FIXM model in order to support additional requirements from particular communities of interest. [adapted from the FIXM Strategy v1.0]

This document captures the the data dictionary generated from the Logical Model of the Europe A-CDM FIXM Extension v1.0. It provides a textual representation of the structures / data elements that can be exchanged between systems and/or services.

The Europe A-CDM FIXM Extension v1.0 is still a research extension which shall not be used for any operational purposes. It is delivered officially to the FIXM CCB and made publicly available on <a href="www.FIXM.aero">www.FIXM.aero</a>, so that its content can be considered for inclusion in future core FIXM versions, in accordance with the rules for governing the FIXM content described in the FIXM CCB Charter v1.0.

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### **Document History**

Version	Version Type	Author	Description of Changes
1.0	Final	Carlos Fornas, EUROCONTROL	First version of the document

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### **Data Dictionary for Technical People**

The content of this chapter is generated programmatically from the Logical Model belonging to the FIXM A-CDM Extension for Europe. This is compliant with the FIXM Strategy v1.0, which recognises that data dictionary documents should be generated from the conceptual and logical models.

The information extracted from the Logical Model is organised according to the following template.

Name of Data Element		
Definition	Provides the definition / description of the data element as captured in the Logical Model as UML Class, UML Attribute or UML Role.	
Trace to Conceptual Model	Lists the concept(s) captured in the Conceptual Model to which the data element maps.	
Is Part Of	Specifies the name of the container data element to which the referenced data element belongs, if applicable.	
Data Type(s)	Indicates the UML class used to type the data element, if applicable.	

#### **AcdmAerodromelataCode**

AcdmAerodromelataCode	
Definition	IATA Airport Code. It is composed of three letters (e.g. "BCN").
Trace to Conceptual Model	AerodromelATADesignator

#### **AcdmAerodromeReference**

AcdmAerodromeReference	
Definition	Aerodrome reference extension which allows identifying an aerodrome by the standard IATA airport code and the standard
	ICAO aerodrome code.
Trace to Conceptual Model	AerodromeCode

## AcdmAircraftFlightStatus

AcdmAircraftFlightStatus	
Definition	Indicates the Aircraft Flight Status of the aircraft according to A-
	CDM Implementation Manual.
Trace to Conceptual Model	AircraftFlightStatus

## AcdmAircraftType

AcdmAircraftType	
Definition	Aircraft Type extension which allows to use the manufacturer and
	model of the airframe expressed either as an ICAO-approved
	designator, a text description, or IATA-approved designator.
Trace to Conceptual Model	AircraftType

## **AcdmAirportTransitView**

AcdmAirportTransitView	
Definition	The path and operations linked to an aircraft during its "visit" to the airport. It starts at the Initial approach fix (STAR) and includes the taxi-in segment, the turn round processes from the airspace user, the taxi-out segment and ends with the handover to the TMA departure controller at the SID [SESAR OFA 05.01.01].
Trace to Conceptual Model	AirportTransitView

### **AcdmAlert**

AcdmAlert	
Definition	A system generated message which alerts the Airport CDM
	Partners of an irregularity and which normally requires one or
	more partners to make a manual
	intervention to resolve the irregularity [A-CDM Implementation
	Manual].
Trace to Conceptual Model	ACDMFlightAlert

### **AcdmAlertCode**

AcdmAlertCode	
Definition	String that indicates the A-CDM Alert designator, e.g. "CDM12".
Trace to Conceptual Model	ACDMAlertKind

#### **AcdmAlertLevel**

AcdmAlertLevel	
Definition	Enumeration which indicates the A-CDM alert category kind.
Trace to Conceptual Model	ACDMAlertLevel

#### **AcdmAlertStatus**

AcdmAlertStatus	
Definition	Enumeration which indicates if an A-CDM alert stills applicable.
Trace to Conceptual Model	ACDMAlertStatus

### **AcdmCarrierIdentifier**

AcdmCarrierIdentifier	
Definition	Structure which allows identifying an Aircraft Operator using either ICAO or IATA designator.
Trace to Conceptual Model	AirlineDesignator

#### **AcdmDate**

AcdmDate	
Definition	String which contains a date, eg. "2014-04-11".
Trace to Conceptual Model	

## acdm Departure Gate

AcdmFlightDeparture. <b>acdmDepartureGate</b>	
Definition	Gate at which the passengers access for boarding.
Trace to Conceptual Model	Gate
Is Part Of	AcdmFlightDeparture
Data Type(s)	AcdmGate

### **AcdmExtension**

AcdmExtension	
Definition	Extension specific to Airport Collaborative Decision Making. It contains all the A-CDM specific elements, to segregate them from the core elements and from other extensions.
Trace to Conceptual Model	

## AcdmFlight

AcdmFlight AcdmFlight	
Definition	Flight extension which allows to use dedicated properties in the scope of Airport Collaborative Decision Making.
Trace to Conceptual Model	

## AcdmFlightDeparture

AcdmFlightDeparture	
Definition	FlightDeparture extenison which allows to use dedicated properties in the scope of Airport CDM.
Trace to Conceptual Model	Departure

## AcdmFlightID

AcdmFlightID AcdmFlightID	
Definition	General structure to allow different flight identifiers for systems not supporting GUFI. Many identifiers can coexist.
Trace to Conceptual Model	

### **AcdmGate**

AcdmGate	
Definition	A specified location for boarding and leaving an aircraft in an airport.
Trace to Conceptual Model	Gate

### **AcdmGateName**

AcdmGateName	
Definition	String containing the name of the gate.
Trace to Conceptual Model	Gate

### acdmGufi

AcdmFlightID. <b>acdmGufi</b>	
Definition	Globally Unique Flight Identifier.
Trace to Conceptual Model	GloballyUniqueFlightIdentifier
Is Part Of	AcdmFlightID
Data Type(s)	AcdmGufi

#### **AcdmGufi**

AcdmGufi AcdmGufi	
Definition	Globally Unique Flight Identifier.
Trace to Conceptual Model	GloballyUniqueFlightIdentifier

#### **AcdmlataAircraftIdentifier**

AcdmlataAircraftldentifier	
Definition	IATA standard nomencalature of aircraft manufacturer and type. It is composed of three digits/letters.
Trace to Conceptual Model	AircraftTypeIATACode

### **AcdmlataCarrierIdentifier**

AcdmlataCarrierldentifier	
Definition	IATA Aircraft Operator designator. It is composed of two
	digits/letters (e.g. "VY").
Trace to Conceptual Model	AirlineIATADesignator

## acdmlata Flight ID

AcdmFlightID. <b>acdmIataFlightID</b>	
Definition	IATA Unique Flight Leg Identifier as defined in the Schedule [AIDX,
	UFI].
Trace to Conceptual Model	IATAUniqueFlightIdentifier
Is Part Of	AcdmFlightID
Data Type(s)	AcdmlataFlightID

## AcdmlataFlightID

AcdmlataFlightID AcdmlataFlightID	
	Flight identification structure as defined by IATA, also known as UFI (Unique Flight Identifier).
Trace to Conceptual Model	IATAUniqueFlightIdentifier

## AcdmlataFlightNumber

AcdmlataFlightNumber	
Definition	IATA Flight Number. It is composed of three or four digits.
Trace to Conceptual Model	FlightNumber

### **AcdmlataSuffix**

AcdmlataSuffix	
Definition	IATA Unique Flight Leg Identifier suffix. It is composed of one
	letter.
Trace to Conceptual Model	Suffix

## acdmlcaoFlightID

AcdmFlightID. <b>acdmIcaoFlightID</b>	
Definition	Flight identification based on ICAO fields present in the Flight Plan.
Trace to Conceptual Model	ICAOFlightID
Is Part Of	AcdmFlightID
Data Type(s)	AcdmIcaoFlightID

## AcdmlcaoFlightID

AcdmlcaoFlightID	
Definition	Flight identification structure based on usual ICAO fields present in the Flight Plan.
Trace to Conceptual Model	ICAOFlightID

## acdmlfplID

AcdmFlightID. <b>acdmIfplID</b>	
Definition	Unique identifier assigned to a Flight by IFPS (Integrated Initial Flight Plan Processing System) [EUROCONTROL].
Trace to Conceptual Model	IFPLIdentifier
Is Part Of	AcdmFlightID
Data Type(s)	AcdmlfplID

## AcdmlfplID

AcdmlfplID AcdmlfplID	
Definition	Unique identifier of a flight when the flight plan is submitted to IFPS (Integrated initial Flight Plan Processing System). The identifier is assigned by IFPS.
Trace to Conceptual Model	IFPLIdentifier

## Acdmlfplldentifier

Acdmlfplldentifier	
Definition	Identifier created by IFPS (Integrated initial Flight Plan Processing
	System). It is composed of two letters followed by eight digits.
Trace to Conceptual Model	IFPLIdentifier

## AcdmRemoteDeicing

AcdmRemoteDeicing AcdmRemoteDeicing	
Definition	Indicates whether the de-icing procedure is executed in remote position or on departure stand.
Trace to Conceptual Model	Deicing

#### **ACTIVE**

AcdmAlertStatus. <b>ACTIVE</b>	
Definition	
Trace to Conceptual Model	
Is Part Of	AcdmAlertStatus
Data Type(s)	

### AIR

AcdmAircraftFlightStatus. <b>AIR</b>	
Definition	Airborne
Trace to Conceptual Model	
Is Part Of	AcdmAircraftFlightStatus
Data Type(s)	

## aircraftFlightStatus

AcdmAirportTransitView. <b>aircraftFlightStatus</b>	
Definition	Status of an aircraft at an aerodrome combining information about the outbound flight, the inbound flight and the turnaround process, as defined in the A-CDM Implementation Manual.
Trace to Conceptual Model	AircraftFlightStatus
Is Part Of	AcdmAirportTransitView
Data Type(s)	AcdmAircraftFlightStatus

## aircraftIdentification

AcdmlcaoFlightID. <b>aircraftIdentification</b>	
Definition	Name used by ATS units to identify and communicate with an aircraft.
Trace to Conceptual Model	AircraftIdentification
Is Part Of	AcdmlcaoFlightID
Data Type(s)	FlightIdentifier

#### **ALERT**

AcdmAlertLevel. <b>ALERT</b>	
Definition	
Trace to Conceptual Model	
Is Part Of	AcdmAlertLevel
Data Type(s)	

### alertCode

AcdmAlert. <b>alertCode</b>	
Definition	Code of the A-CDM alert as defined in the A-CDM Implementation
	Manual.
Trace to Conceptual Model	ACDMAlertKind
Is Part Of	AcdmAlert
Data Type(s)	AcdmAlertCode

## alertDescription

AcdmAlert. <b>alertDescription</b>	
Definition	Short textual description of the A-CDM alert as defined in the A-CDM Implementation Manual.
Trace to Conceptual Model	
Is Part Of	AcdmAlert
Data Type(s)	FreeText

### alertLevel

AcdmAlert. <b>alertLevel</b>	
Definition	Describes the kind of the A-CDM alert, such as WARNING or
	ALERT.
Trace to Conceptual Model	ACDMAlertLevel
Is Part Of	AcdmAlert
Data Type(s)	AcdmAlertLevel

### alertStatus

AcdmAlert. <b>alertStatus</b>	
Definition	Specifies whether the alert stills applicable or not.
Trace to Conceptual Model	ACDMAlertStatus
Is Part Of	AcdmAlert
Data Type(s)	AcdmAlertStatus

### ARR

AcdmAircraftFlightStatus. <b>ARR</b>	
Definition	Landed
Trace to Conceptual Model	
Is Part Of	AcdmAircraftFlightStatus
Data Type(s)	

### BRD

AcdmAircraftFlightStatus. <b>BRD</b>	
Definition	Boarding
Trace to Conceptual Model	
Is Part Of	AcdmAircraftFlightStatus
Data Type(s)	

## carrierIdentification

AcdmlataFlightID. <b>carrierIdentification</b>	
Definition	Code of the Aircraft Operator of the identified flight, usually IATA
	but can be ICAO, as defined in the Schedule [AIDX, UFI].
Trace to Conceptual Model	AirlineDesignator
Is Part Of	AcdmlataFlightID
Data Type(s)	AcdmCarrierIdentifier

### **DEI**

AcdmAircraftFlightStatus. <b>DEl</b>	
Definition	De-icing in progress
Trace to Conceptual Model	
Is Part Of	AcdmAircraftFlightStatus
Data Type(s)	

## deicingPosition

AcdmFlightDeparture. <b>deicingPosition</b>	
Definition	Aircraft stand position at which the de-icing procedure takes place.
Trace to Conceptual Model	AircraftStand
Is Part Of	AcdmFlightDeparture
Data Type(s)	StandPosition

### DEP

AcdmAircraftFlightStatus. <b>DEP</b>	
Definition	Departed
Trace to Conceptual Model	
Is Part Of	AcdmAircraftFlightStatus
Data Type(s)	

## ${\bf departure Aerodrome Reference}$

AcdmlataFlightID. <b>departureAerodromeReference</b>	
Definition	Code of scheduled departure airport usually IATA but can be ICAO or otheras defined in the Schedule [AIDX, UFI].
Trace to Conceptual Model	AerodromeCode
Is Part Of	AcdmlataFlightID
Data Type(s)	AerodromeReference

## designator

AcdmGate. <b>designator</b>	
Definition	Common gate name.
Trace to Conceptual Model	
Is Part Of	AcdmGate
Data Type(s)	AcdmGateName

### destinationAerodromeReference

AcdmlataFlightID. <b>destinationAerodromeReference</b>	
Definition	Code of scheduled arrival airport usually IATA but can be ICAO or otheras defined in the Schedule [AIDX, UFI].
Trace to Conceptual Model	AerodromeCode
Is Part Of	AcdmlataFlightID
Data Type(s)	AerodromeReference

## estimated Deicing Time

AcdmFlightDeparture. <b>estimatedDeicingTime</b>	
Definition	Forecast duration of the de-icing procedure.
Trace to Conceptual Model	EstimatedDeicingTime
Is Part Of	AcdmFlightDeparture
Data Type(s)	Duration

### estimatedOffBlockTime

AcdmlcaoFlightID. <b>estimatedOffBlockTime</b>	
Definition	Date and time at which the aircraft will off block according to ICAO flight plan filed.
Trace to Conceptual Model	EstimatedOffBlockTime
Is Part Of	AcdmlcaoFlightID
Data Type(s)	Time

## estimatedTaxiOutTime

Асс	AcdmFlightDeparture. <b>estimatedTaxiOutTime</b>	
Definition	Estimated Taxi-Out Time: the estimated taxi time between off-block and take off. This estimate includes any delay buffer time at the holding point or remote deicing prior to take off. [A-CDM Implementation Manual].	
Trace to Conceptual Model	EstimatedTaxiOutTime	
Is Part Of	AcdmFlightDeparture	
Data Type(s)	Duration	

### FIR

AcdmAircraftFlightStatus. <b>FIR</b>	
Definition	Flight entered local FIR (Flight Information Region)
Trace to Conceptual Model	
Is Part Of	AcdmAircraftFlightStatus
Data Type(s)	

### **FNL**

AcdmAircraftFlightStatus. <b>FNL</b>	
Definition	Final
Trace to Conceptual Model	
Is Part Of	AcdmAircraftFlightStatus
Data Type(s)	

## gufi

AcdmGufi. <b>gufi</b>	
Definition	A reference that uniquely identifies a specific flight and that is independent of any particular system.
Trace to Conceptual Model	GloballyUniqueFlightIdentifier
Is Part Of	AcdmGufi
Data Type(s)	GloballyUniqueFlightIdentifier

### iataCarrierIdentifier

AcdmCarrierIdentifier. <b>iataCarrierIdentifier</b>	
Definition	IATA Aircraft Operator designator.
Trace to Conceptual Model	AirlineIATADesignator
Is Part Of	AcdmCarrierIdentifier
Data Type(s)	AcdmlataCarrierIdentifier

### iataCode

AcdmAerodromeReference. <b>iataCode</b>	
Definition	Aerodrome's IATA code, e.g. "BCN".
Trace to Conceptual Model	AerodromelATADesignator
Is Part Of	AcdmAerodromeReference
Data Type(s)	AcdmAerodromeIataCode

## iata Flight Number

AcdmlataFlightID. <b>iataFlightNumber</b>	
Definition	IATA flight number of the identified flight as defined in the
	Schedule [AIDX, UFI].
Trace to Conceptual Model	FlightNumber
Is Part Of	AcdmlataFlightID
Data Type(s)	AcdmlataFlightNumber

### iataModelIdentifier

AcdmAircraftType. <b>iataModelIdentifier</b>	
Definition	The IATA code of the aircraft type.
Trace to Conceptual Model	AircraftTypeIATACode
Is Part Of	AcdmAircraftType
Data Type(s)	AcdmlataAircraftIdentifier

#### **IBK**

AcdmAircraftFlightStatus. <b>IBK</b>	
Definition	In-Block
Trace to Conceptual Model	
Is Part Of	AcdmAircraftFlightStatus
Data Type(s)	

### **icaoArrivalAerodrome**

AcdmlcaoFlightID. <b>icaoArrivalAerodrome</b>	
Definition	ICAO code of scheduled destination airport.
Trace to Conceptual Model	AerodromelCAOLocationIndicator
Is Part Of	AcdmlcaoFlightID
Data Type(s)	IcaoAerodromeReference

### icaoCarrierIdentifier

AcdmCarrierIdentifier. <b>icaoCarrierIdentifier</b>	
Definition	ICAO Aircraft Operator designator.
Trace to Conceptual Model	AirlineICAODesginator
Is Part Of	AcdmCarrierIdentifier
Data Type(s)	CarrierIdentifier

## icao Departure Aerodrome

AcdmlcaoFlightID. <b>icaoDepartureAerodrome</b>	
Definition	ICAO code of scheduled departure airport.
Trace to Conceptual Model	AerodromelCAOLocationIndicator
Is Part Of	AcdmlcaoFlightID
Data Type(s)	IcaoAerodromeReference

# ifplIdentifier

AcdmlfplID. <b>ifplIdentifier</b>	
Definition	Unique identifier of a flight plan once is submitted to IFPS (Integrated initial Flight Plan Processing System). The identifier is assigned by IFPS.
Trace to Conceptual Model	IFPLIdentifier
Is Part Of	AcdmlfplID
Data Type(s)	Acdmlfplldentifier

### **INACTIVE**

AcdmAlertStatus. <b>INACTIVE</b>	
Definition	
Trace to Conceptual Model	
Is Part Of	AcdmAlertStatus
Data Type(s)	

## INI

AcdmAircraftFlightStatus. <b>INI</b>	
Definition	Initiated
Trace to Conceptual Model	
Is Part Of	AcdmAircraftFlightStatus
Data Type(s)	

### ОВК

AcdmAircraftFlightStatus. <b>OBK</b>	
Definition	Off-Block
Trace to Conceptual Model	
Is Part Of	AcdmAircraftFlightStatus
Data Type(s)	

### **ONSTAND**

AcdmRemoteDeicing. <b>ONSTAND</b>	
Definition	
Trace to Conceptual Model	
Is Part Of	AcdmRemoteDeicing
Data Type(s)	

## originDate

AcdmlataFlightID. <b>originDate</b>	
Definition	Schduled flight origin date based on the flight as defined in the Schedule [AIDX, UFI].
Trace to Conceptual Model	OriginFlightDate
Is Part Of	AcdmlataFlightID
Data Type(s)	AcdmDate

## RDI

AcdmAircraftFlightStatus. <b>RDI</b>	
Definition	Ready for de-icing
Trace to Conceptual Model	
Is Part Of	AcdmAircraftFlightStatus
Data Type(s)	

## RDY

AcdmAircraftFlightStatus. <b>RDY</b>	
Definition	Ready
Trace to Conceptual Model	
Is Part Of	AcdmAircraftFlightStatus
Data Type(s)	

## related Flight Identification

AcdmA	AcdmAirportTransitView. <b>relatedFlightIdentification</b>	
Definition	Flight Identification of the preceding/following flight leg that is operated by the aircraft during the "visit" to the airport.	
	<ul> <li>For inbound flights, this corresponds to the identification of the following flight leg, i.e. the identification of the acdmOutboundFlight.</li> <li>For outbound flights, this corresponds to the identifications of the preceding flight leg, i.e. the identification of the acdmInboundFlight.</li> </ul>	
Trace to Conceptual Model	Flight	
Is Part Of	AcdmAirportTransitView	
Data Type(s)	AcdmFlightID	

### **REMOTE**

AcdmRemoteDeicing. <b>REMOTE</b>	
Definition	
Trace to Conceptual Model	
Is Part Of	AcdmRemoteDeicing
Data Type(s)	

## remoteDeicing

AcdmFlightDeparture. <b>remoteDeicing</b>	
Definition	Indicates whether the deicing procedure is executed in remote
	position or not, i.e. on departure stand.
Trace to Conceptual Model	Deicing
Is Part Of	AcdmFlightDeparture
Data Type(s)	AcdmRemoteDeicing

## repeatNumber

AcdmlataFlightID. <b>repeatNumber</b>	
Definition	Repeat or departure attempt.
Trace to Conceptual Model	RepeatNumber
Is Part Of	AcdmlataFlightID
Data Type(s)	Count

### SCH

AcdmAircraftFlightStatus. <b>SCH</b>	
Definition	Scheduled
Trace to Conceptual Model	
Is Part Of	AcdmAircraftFlightStatus
Data Type(s)	

## suffix

AcdmlataFlightID. <b>Suffix</b>	
Definition	suffix of the repeatNumber as defined in the Schedule [AIDX, UFI].
Trace to Conceptual Model	Suffix
Is Part Of	AcdmlataFlightID
Data Type(s)	AcdmlataSuffix

## terminalName

AcdmGate. <b>terminalName</b>	
Definition	Terminal name where the gate is located.
Trace to Conceptual Model	Terminal
Is Part Of	AcdmGate
Data Type(s)	TerminalName

## tobtUpdateCount

AcdmFlightDeparture. <b>tobtUpdateCount</b>	
Definition	The number of updates to Target Off Block Time after Target Start Up Approval Time has been issued. (e.g. max 3 updates after Target Start Up Approval Time issue).
Trace to Conceptual Model	TOBTUpdateStatus
Is Part Of	AcdmFlightDeparture
Data Type(s)	Count

#### **WARNING**

AcdmAlertLevel. <b>WARNING</b>	
Definition	
Trace to Conceptual Model	
Is Part Of	AcdmAlertLevel
Data Type(s)	

### References

- [1] A-CDM Implementation Manual, EUROCONTROL, IATA and ACI
- [2] FIXM Strategy v1.0, FIXM Change Control Board