

# **AIXM**

## **Notes Requirements**

### **Data Dictionary**

# Aeronautical Information Exchange Model (AIXM)

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*For all inquiries, please contact:*

Brett BRUNK - [brett.brunk@faa.gov](mailto:brett.brunk@faa.gov)

Eduard POROSNICU - [eduard.porosnicu@eurocontrol.int](mailto:eduard.porosnicu@eurocontrol.int)

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## Model Information

### 1. Logical View

**Model Name: AIXM 5.0.Phase\_2.g.mdl**

#### 1.1 Common Packages

- AIXM Data Types
- AIXM Metadata

#### 1.2 Packages

##### 1.2.1 Class Diagrams

##### 1.2.1.1 AIXM Feature

##### 1.2.1.2 Notes

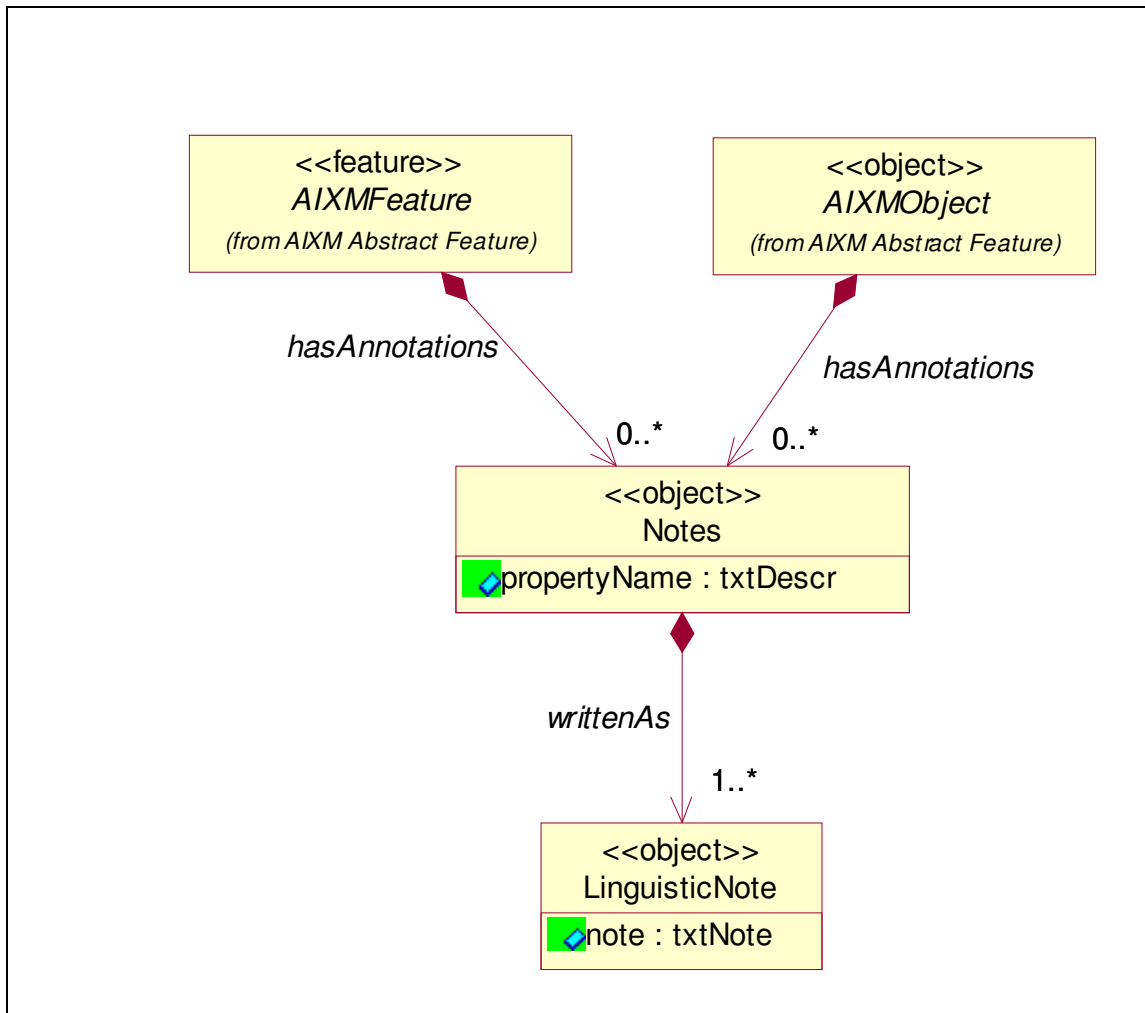
The purpose of this document is to introduce a new method for documenting text notes in AICM/AIXM 5.0 allowing the industry to move toward standardization and/or actual defined attributes.

Previous versions of AICM/AIXM implemented textual notes by defining a ‘remarks’ property for each entity/feature/object. All notes, whether specific to an attribute or applicable to the whole feature instance, were grouped together in the ‘remarks’ property. It is more advantageous if note can indicate to which property the notes apply. In addition, it may be possible to identify a standard list of notes that apply to certain properties

The new approach will relate the Note object class to all features and objects in the model. Notes may be directly associated with a property/attribute or may be associated with a feature or object. *(The relationship to each feature and object are not shown in the UML in an effort to keep the UML ledgible. The relationships are generated with a script.)*

Notes may also be instantiated in different languages. The same “notes” mechanism can be used for providing translations of the free text “description” attribute of an AICM 5 feature/object, which are normally provided in English only.

As our processes become more automated and data is required to be “real time” and meaningful it is expected that textual notes will become standardized. These notes will become defined attributes with code lists in our models.



**Figure 1: 1 - Notes**

This diagram shows how Notes (also known as Remarks) may be provided for any AIXM features and properties, in a specific language.

As a minimum, all Notes shall be expressed in English.

## Classes

### 1.2.1.2.1 Notes

A general text note for a feature or for one of its properties.

#### ATTRIBUTES

<u>propertyName</u>	Data Type: txtDescr
Definition: The name of the feature property for which this note is relevant, if applicable. If no propertyName is specified, then the Note is relevant for the feature as a whole.	

**ASSOCIATIONS**

Notes <b>writtenAs</b> 1..* LinguisticNote	Is Aggregate: True
Definition:	

AIXMFeature <b>hasAnnotations</b> 0..* Notes	Is Aggregate: True
Definition:	

AIXMObject <b>hasAnnotations</b> 0..* Notes	Is Aggregate: True
Definition:	

OrganizationAuthority <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

OrganizationAuthorityAssociation <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Unit <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

ObstaclePart <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

ObstacleLighting <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Obstacle <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Procedure <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

ApproachCondition <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
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Definition:
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ApproachDistanceTable	<b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:		

ApproachAltitudeTable	<b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:		

ApproachTimingTable	<b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:		

MissedApproachGroup	<b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:		

LandingAreaCollection	<b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:		

FinalProfile	<b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:		

CirclingRestriction	<b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:		

CirclingArea	<b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:		

Minima	<b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:		

EquipmentUnavailableAdjustments	<b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:		

EquipmentUnavailableAdjustmentColumn	<b>hasRemarks</b> 0..* Notes	Is Aggregate: True
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Definition:
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SafeAltitudeArea <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

MSASector <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

TAASector <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

TerminalArrivalArea <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

ProcedureTransition <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

FASDataBlock <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

HoldingUse <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

SegmentLeg <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

TakeOffAreaCollection <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

ProcedureUsage <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

HoldingPattern <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
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Definition:
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UnplannedHolding <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

HoldingPatternDuration <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

HoldingPatternDistance <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

RouteDme <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

FlightRestriction <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

RouteSegment <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

FlightRestrictionLevel <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AirspaceBorderCrossing <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

RoutePortion <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

FlightConditionElement <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

ChangeOverPoint <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
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Definition:
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RoutePortionUsageLimitation <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

FlightRestrictionRouteElement <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

FlightConditionCombination <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

RoutePortionUsage <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

DirectFlight <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

FlightRestrictionRoute <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

EnRouteRoute <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AerodromeHeliport <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AerodromeHeliportCollocation <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AerodromeHeliportNavaid <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AerodromeHeliportUsage <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
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Definition:
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AerodromeHeliportUsageCondition <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AerodromeHeliportUsageLimitation <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

GateStand <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

LandingProtectionArea <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

ConstructionArea <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

ServiceRoad <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

SurveyControlPoint <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

SurfaceCharacteristics <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

MovementAreaElements <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AerodromeOperation <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

RunwayDeclaredDistance <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
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Definition:
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ApproachLightingSystem <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

RunwayDirection <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

RunwayCenterlinePoint <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Runway <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

RunwayCenterlinePointRole <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Stopway <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

ArrestingGear <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

RunwayElement <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

RunwayVisualRange <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

RunwayVisualRangeComponent <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

VisualGlideSlopeIndicator <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
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Definition:
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TaxiHoldingPosition <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

TaxiwayCenterlinePoint <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Taxiway <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

TaxiwayElement <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Apron <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

ApronElement <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

DeicingArea <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

TouchDownLiftOff <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

SurfaceLightSystem <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AeroGroundLight <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Marking <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
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Definition:
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MarkingElement <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AuthorityForAirspace <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Airspace <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AirspaceGeometryComponent <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AirspaceAssociation <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AirspaceCorridor <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AirspaceVolume <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AirspaceUsage <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AirspaceBlockUsage <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AirspaceBlockClass <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

SignificantPointInAirspace <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
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Definition:
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GeoBorder <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Fuel <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Nitrogen <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Oil <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Oxygen <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

PassengerFacility <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AerodromeHeliportGroundService <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Timetable <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Timesheet <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

SpecialDate <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

FlightCharacteristics <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
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Definition:
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AircraftCharacteristics <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Address <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

LevelAndTimeBlock <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

StandardLevel <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

StandardLevelSector <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

StandardLevelColumn <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

StandardLevelTable <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

LightElement <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

RadioFrequencyLimitation <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

CircleSector <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AircraftCapabilites <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
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Definition:
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ObstacleAssessmentArea <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Obstruction <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AltitudeAdjustment <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Service <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Frequency <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

CallsignDetail <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

DesignatedPoint <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

SpecialNavigationStation <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

NavigationSystemCheckpoint <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

DistanceIndication <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

AngleIndication <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
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Definition:
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NavaidEquipment <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

PointReference <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

Navaid <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

NavaidComposition <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

SpecialNavigationSystem <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

SegmentPoint <b>hasRemarks</b> 0..* Notes	Is Aggregate: True
Definition:	

### Class appears in diagram:

1 - Notes

### 1.2.1.2.2 LinguisticNote

The note content expressed in a specific language. As a minimum, all Notes shall be expressed in English.

#### ATTRIBUTES

<a href="#">note</a>	Data Type: txtNote
Definition:	The text of the Note, in a specific language.

#### ASSOCIATIONS

Notes **writtenAs** 1..\* LinguisticNote

Is Aggregate: True

Definition:

**Class appears in diagram:**

1 - Notes

**2. Data Ecoding****1.3 XML Example**

```

<aixm:Notes>
  <aixm:propertyName>upperLimit</aixm:propertyName>
  <aixm:writtenAs>
    <aixm:LinguisticNoteArray>
      <aixm:has_LinguisticNote>
        <aixm:LinguisticNote>
          <aixm:note lang="en-US">This is the first note
about the upper limit, in English</aixm:note>
        </aixm:LinguisticNote>
      </aixm:has_LinguisticNote>
      <aixm:has_LinguisticNote>
        <aixm:LinguisticNote>
          <aixm:note lang="ro-RO">Asta e a doua nota
despre limita superioara, in Romana :)</aixm:note>
        </aixm:LinguisticNote>
      </aixm:has_LinguisticNote>
    </aixm:LinguisticNoteArray>
  </aixm:writtenAs>
</aixm:Notes>

```