

# Add IATA Flight Identifier

<b>CR Number (ID): 132</b>		<b>Submission Date: 9/22/2021</b>	
<b>GENERAL INFORMATION (AUTHOR TO COMPLETE)</b>			
Author	FAA FIXM Development Team		
Brief Description (Subject)	Allow the IATA operator code and commercial flight identifier to be included in FIXM.		
Priority*	<input type="checkbox"/> Immediate	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium <input type="checkbox"/> Low
Scale*	<input type="checkbox"/> Major	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Minor
Expected Impact to Implementers*	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Low <input type="checkbox"/> None
Target FIXM Component(s)	<input checked="" type="checkbox"/> FIXM Logical Model <input type="checkbox"/> FIXM Application <input checked="" type="checkbox"/> FIXM XML Schemas <input type="checkbox"/> Other Specify...		
Target FIXM Release	<input checked="" type="checkbox"/> FIXM Core Version 4.3.0 <input type="checkbox"/> Application Version		
Related FIXM CRs			
Motivation / Change Reason	<input checked="" type="checkbox"/> Requirement <input type="checkbox"/> Functionality/Operability <input type="checkbox"/> Maintenance <input type="checkbox"/> Defect <input type="checkbox"/> Other Specify ...		

\* Optional fields; FIXM Secretariat may update during review

## MOTIVATION / CHANGE REASON DESCRIPTION (AUTHOR TO COMPLETE)

Support new requirement from the FF-ICE IG section B-2.6.2: "The specification of an Aircraft Identification shall allow the IATA operator code and commercial flight identifier to be included in addition to the identifier for ATS purposes described in B-2.6.1. (An aircraft identification will never be identified only by the IATA identifier)."

## PROPOSED CHANGE (AUTHOR TO COMPLETE)

Add three new classes to the FlightData package:

Name: "IataOperatorCode"

Definition: "IATA identifier for the operator of the flight. [FIXM]"

Base Type: CharacterString

Pattern: [A-Z]{2,3}|[A-Z][0-9]|[0-9][A-Z]

Name: "FlightNumber"

Definition: "Up to four-digit commercial flight number. [FIXM]"

Base Type: CountPositive

Pattern: maxInclusive=9999

Name: "OperationalSuffix"

Definition: "One character suffix used to further identify a flight. [FIXM]"

Base Type: CharacterString

Pattern: [A-Z]

Add three new associations from the FlightIdentification class to the three new classes in the FlightData package:

Name: "iataOperatorCode"

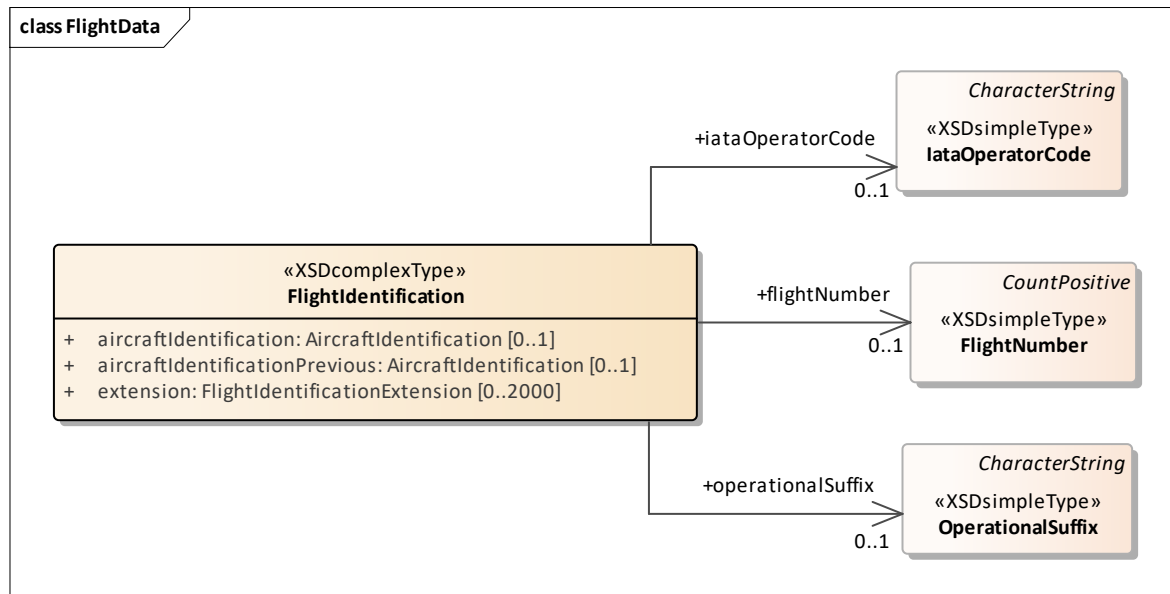
Definition: "IATA identifier for the operator of the flight. [FIXM]"

Name: "flightNumber"

Definition: "Up to four-digit commercial flight number."

Name: "operationalSuffix"

Definition: "One character suffix used to further identify a flight."



Alternate modeling based on FIXM 4.3.0 Kick-Off, CR TIM 4, and CR TIM 5.

During discussion of this CR, alternate modeling that used a single field to represent the entire IATA flight designator was suggested. Ultimately the community decided against this alternate approach, but its details are retained below in case this decision is ever revisited.

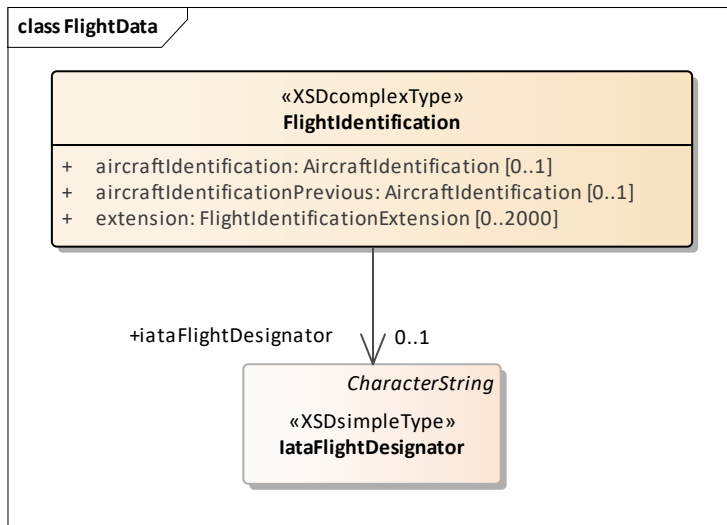
*ECTL provided an example of how this information is modeled in their extension on the discussion boards. The following alternate modeling is based on the ECTL extension.*

*In the FlightData package, create a new <<XSDsimpleType>> class called **iataFlightDesignator** that extends **CharacterString** with the following definition: "Identifier of one or several consecutive IATA flight leg(s) operated by an airline."*

*Associate the following pattern with this new class:*

*`(([A-Z]{2,3})|([A-Z][0-9])|([0-9][A-Z])){1,4}[A-Z]{0,1}`*

*Create an association between the **FlightIdentification** class and the newly created **iataFlightDesignator** class named "iataFlightDesignator" with the following definition: "Identifier of one or several consecutive IATA flight leg(s) operated by an airline."*



CCB SECRETARIAT	
External Standard Consistency Checked	<input type="checkbox"/> AIDX <input type="checkbox"/> AIRM
CR Status	<input checked="" type="checkbox"/> Proposed <input type="checkbox"/> Implemented <input type="checkbox"/> Withdrawn <input type="checkbox"/> Rejected
Decision Date	Click or tap to enter a date
Implemented In	X.X.X
Comments	Click or tap here to add any additional information or comments.

IMPLEMENTATION NOTES (CCB SECRETARIAT TO COMPLETE)
CCB Secretariat notes on any deviations that were required during implementation.