

# Add VFR Cruising Level Option

<b>CR Number (ID): 156</b>		<b>Submission Date: 5/4/2022</b>	
<b>GENERAL INFORMATION (AUTHOR TO COMPLETE)</b>			
Author	FAA FIXM Development Team		
Brief Description (Subject)	Update model to support VFR cruising level.		
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 checked="" type="checkbox"/> Medium	<input 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	Enter list of related 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)

The FF-ICE IG section B-2.1.7 specifies: "The expression of aircraft vertical position shall allow indication of 'VFR' for a flight operated under VFR flight rules and for which a specific altitude has not been provided." FIXM does not currently support this option.

## PROPOSED CHANGE (AUTHOR TO COMPLETE)

Create a new enumeration in the RangesAndChoices package called VisualFlightRulesLevel with the following definition: "Indicates that no specific altitude has been provided for a flight operated under visual flight rules."

Add one entry to the new VisualFlightRulesLevel enumeration:

Name: "VFR"

Definition: "No specific altitude has been provided for this VFR flight."

Create a new choice structure class in the RangesAndChoices package called FlightLevelOrAltitudeOrVfrChoice with the following definition: "A choice between flight level or altitude or VFR specification."

Add two attributes to the new FlightLevelOrAltitudeOrVfrChoice class:

Name: "Altitude"

Type: Altitude

Definition: "Altitude specification."

Name: "FlightLevel"

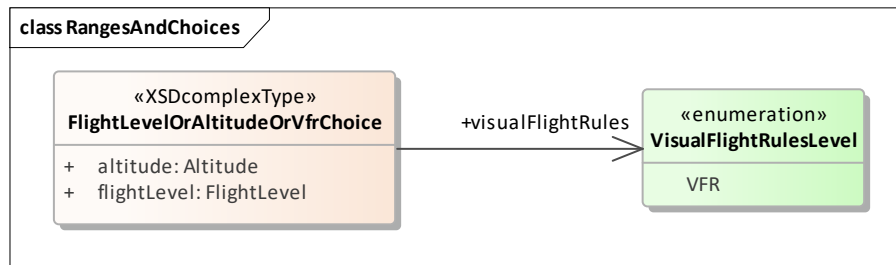
Type: FlightLevel

Definition: "Flight Level specification."

Add an association from FlightLevelOrAltitudeOrVfrChoice to the new enumeration VisualFlightRulesLevel:

Name: "visualFlightRules"

Definition: "Visual Flight Rules specification."



Finally, modify the **cruisingLevel** attribute of the **FlightRouteInformation** class in the **RouteTrajectory** package to now use the new **FlightLevelOrAltitudeOrVfrChoice** class for its type.

## class RouteTrajectory

«XSDcomplexType»  
FlightRouteInformation

- + airfileRouteStartTime: Time [0..1]
- + cruisingLevel: FlightLevelOrAltitudeOrVfrChoice [0..1]
- + cruisingSpeed: TrueAirspeed [0..1]
- + extension: FlightRouteInformationExtension [0..2000]
- + routeText: CharacterString [0..1]
- + totalEstimatedElapsedTime: Duration [0..1]

## 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.