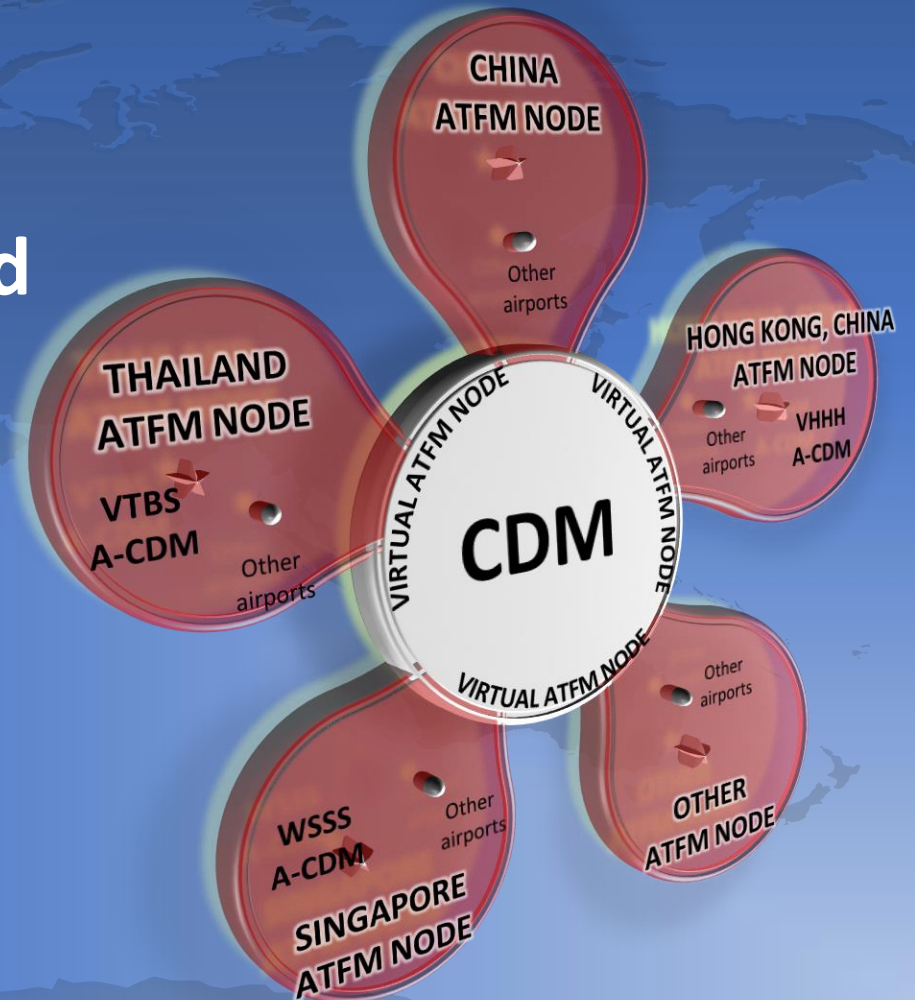
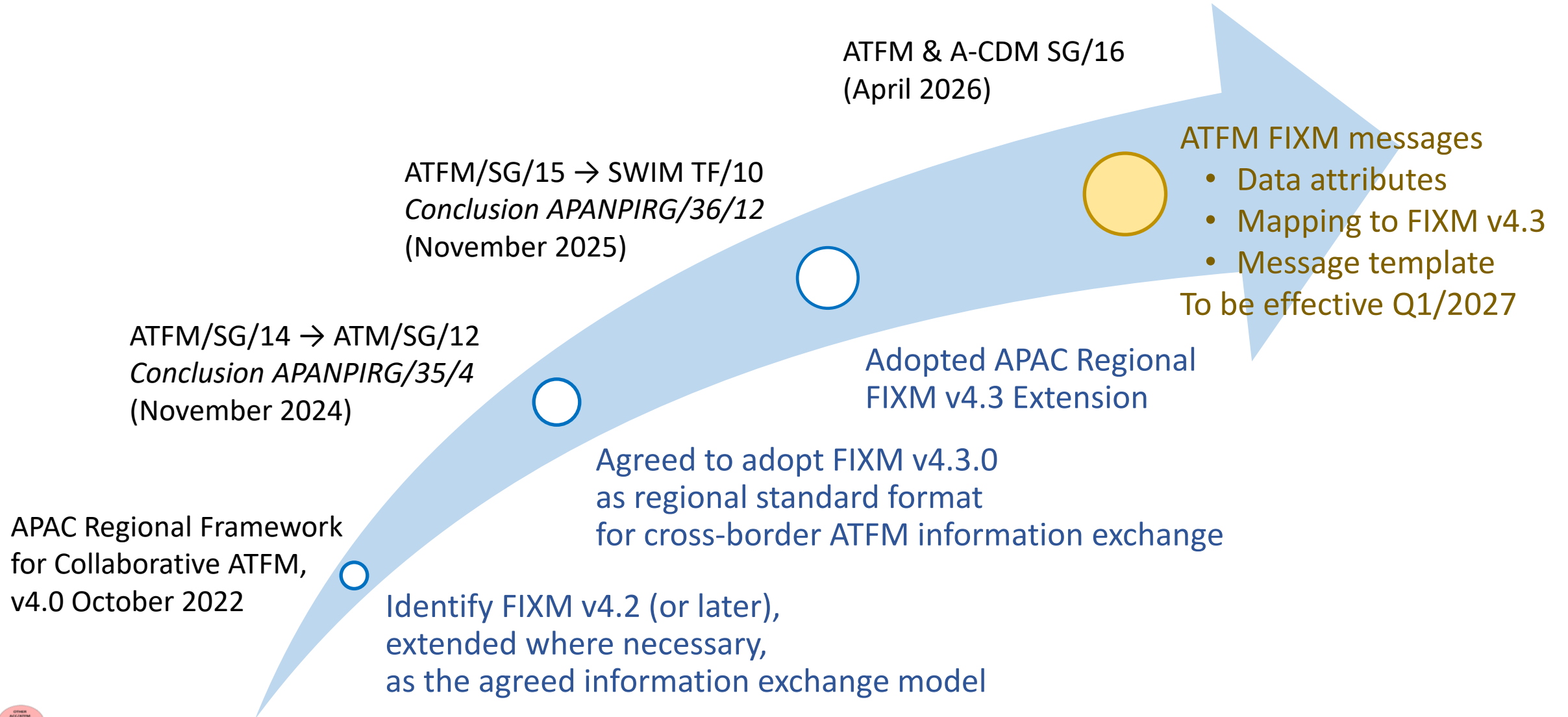


ATFM FIXM MESSAGE DATA ATTRIBUTES AND ASSOCIATED MESSAGE TEMPLATES BASED ON FIXM VERSION 4.3 AS ASIA/PACIFIC REGIONAL STANDARD

Presented by
Hong Kong China, Singapore, and Thailand



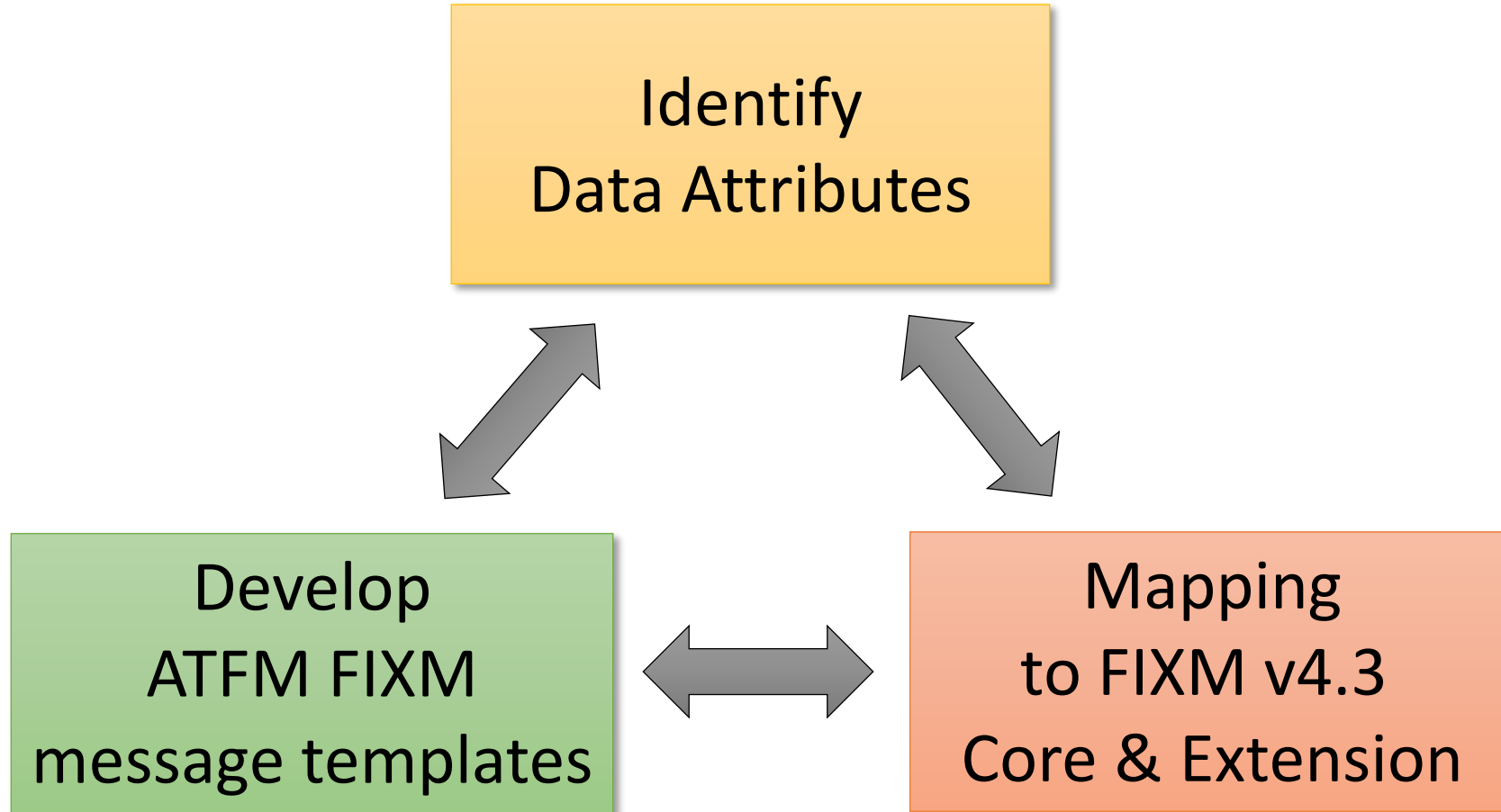
Introduction



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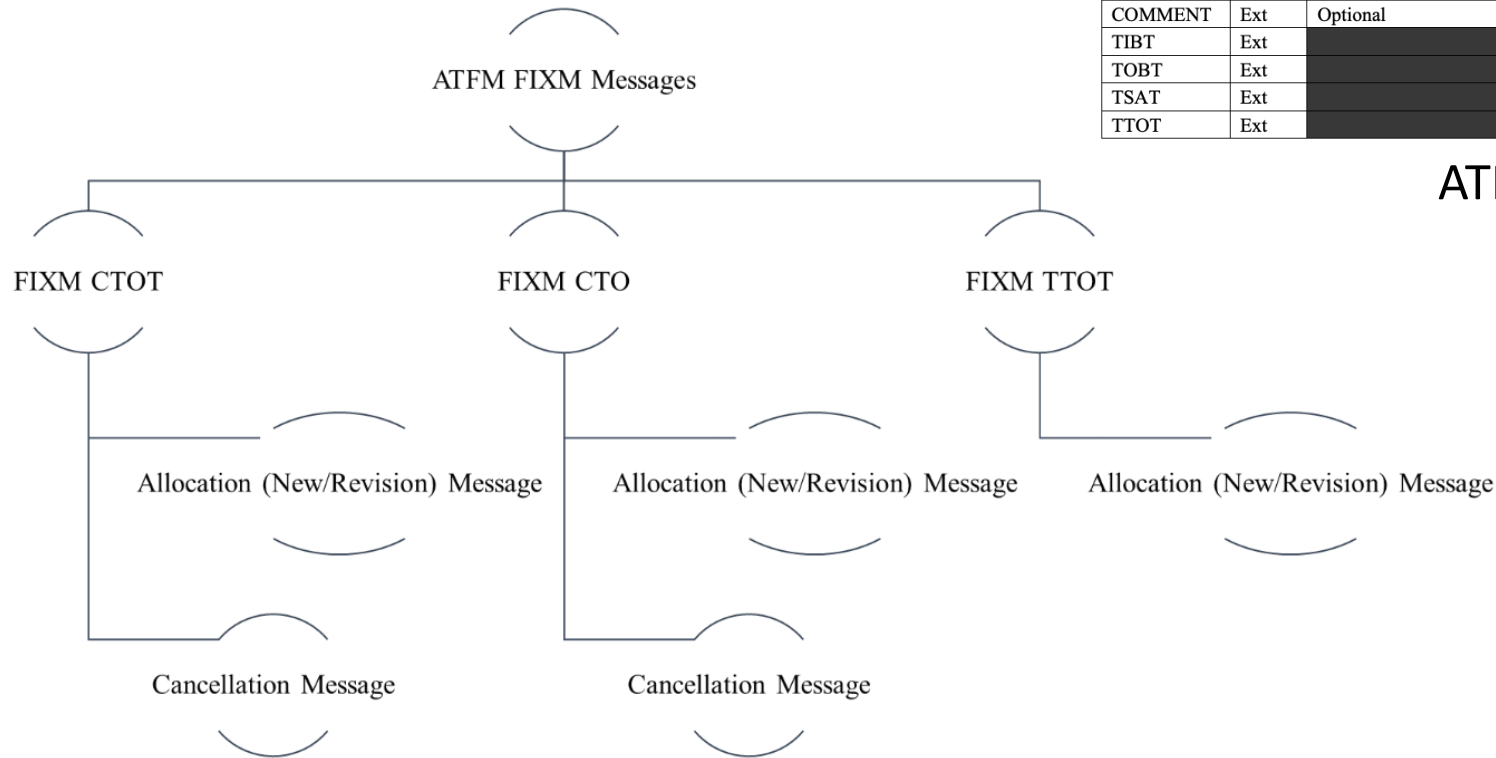


Development Process



ATFM FIXM Messages

Data Field	Core/Ext	FIXM CTOT Allocation	FIXM CTOT Cancellation	FIXM CTO Allocation	FIXM CTO Cancellation	FIXM TTOT Allocation
GUFI	Core	Optional (FIXM/ eFPL)	Optional (FIXM/ eFPL)	Optional (FIXM/ eFPL)	Optional (FIXM/ eFPL)	Optional (FIXM/ eFPL)
ACID	Core	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory
ADEP	Core	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory
ADES	Core	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory
EOBD	Core	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory
EOBT	Core	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory
CTOT	Core	Mandatory				
CTO	Core			Mandatory		
Flight Level	Core			Optional		
TaxiTime	Ext	Mandatory		Optional		
REGCAUSE	Ext	Mandatory		Mandatory		
REGUL	Ext	Optional		Optional		
REASON	Ext	Optional		Optional		
COMMENT	Ext	Optional		Optional		
TIBT	Ext					Optional
TOBT	Ext					Optional
TSAT	Ext					Optional
TTOT	Ext					Mandatory



ATFM Message Data Attributes *Appendix A*

Initial set of ATFM FIXM Messages

- FIXM_CTOT_ALLOCATION
- FIXM_CTOT_CANCELLATION
- FIXM_CTO_ALLOCATION
- FIXM_CTO_CANCELLATION
- FIXM_TTOT_ALLOCATION



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Mapping to FIXM v4.3 Core & Extension

Data Attributes	Extension
CTOT	FlightType.routeTrajectoryGroup.negotiating.element.constraint.time.timeSpecification.timeValue = (CTOT) FlightType.routeTrajectoryGroup.negotiating.element.point4D.pointProperty.propertyType = WHEELS_OFF FlightType.routeTrajectoryGroup.negotiating.element.elementStartPoint.aerodromReferencePoint.locationIndicator = <u>FlightType.departure.aerodrome.locationIndicator</u>
CTO	FlightType.routeTrajectoryGroup.negotiating.element.constraint.time.timeSpecification.timeValue = (CTO) FlightType.routeTrajectoryGroup.negotiating.element.elementStartPoint = (point at which CTO is specified)
Flight Level (FL)	FlightType.routeTrajectoryGroup.negotiating.element.constraint.level.level.flightLevel = (FL at the constraint point)
TaxiTime	<u>FlightType.departure.extension.taxiTime</u> = (TaxiTime)
REGCAUSE	
- ATFM Measure Code	FlightType.routeTrajectoryGroup.negotiating.element.constraint.extension.regulationCause.atfmMeasureCode = (ATFM Measure Code)
- ATFM Measure Location	FlightType.routeTrajectoryGroup.negotiating.element.constraint.extension.regulationCause.atfmMeasureLocation = (ATFM Measure Location)
- IATA Delay Code	FlightType.routeTrajectoryGroup.negotiating.element.constraint.extension.regulationCause.iataDelayCode = (IATA Delay Code)
REGUL	4 char = constraint area; 5 char = constraint location; 5 char = DDMM; 2 char = version number
- Effective Date	FlightType.routeTrajectoryGroup.negotiating.element.constraint.extension.regulationId.effectiveDate = (Effective Date)
- Version	FlightType.routeTrajectoryGroup.negotiating.element.constraint.extension.regulationId.version = (Version)
- Constraint Area	FlightType.routeTrajectoryGroup.negotiating.element.constraint.extension.regulationId.constraintArea = (Constraint Area)
- Constraint Location	FlightType.routeTrajectoryGroup.negotiating.element.constraint.extension.regulationId.constraintLocation = (Constraint Location)

ATFM Message Data Attributes Mapping based on FIXM v4.3

Appendix B

ting.element.constraint.extension.reason = (REASON)

ting.element.constraint.extension.comment = (COMMENT)

eOffTime = (TTOT)

time = (EOBT)

element.point4D.time = (ETO)

element.elementStartPoint = (point at which ETO is specified)

element.point4D.time = (ELDT)

element.point4D.pointProperty.propertyType = WHEELS_ON

FlightType.routeTrajectoryGroup.desired.element.elementStartPoint.aerodromReferencePoint.locationIndicator = FlightType.arrival.destinationAerodrome.locationIndicator

EIBT

FlightType.routeTrajectoryGroup.desired.element.point4D.time = (EIBT)

FlightType.routeTrajectoryGroup.desired.element.point4D.pointProperty.propertyType = IN_BLOCKS

FlightType.routeTrajectoryGroup.desired.element.elementStartPoint.aerodromReferencePoint.locationIndicator =

FlightType.arrival.destinationAerodrome.locationIndicator

CLDT

FlightType.routeTrajectoryGroup.negotiating.element.constraint.time.timeSpecification.timeValue = (CLDT)

FlightType.routeTrajectoryGroup.negotiating.element.point4D.pointProperty.propertyType = WHEELS_ON

FlightType.routeTrajectoryGroup.negotiating.element.elementStartPoint.aerodromReferencePoint.locationIndicator =

FlightType.arrival.destinationAerodrome.locationIndicator

ATFM FXIM Message Templates based on FIXM v4.3

Appendix C

ATFM & A-CDM SG/16 – WP-6b-02



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Action by the Meeting

The meeting is invited to:

- a) note the information contained in this paper;
- b) review of ATFM FIXM messages data attributes, mapping, and the associated message templates based on FIXM version 4.3 Core and Extension as shown in Appendix A, B and C;
- c) agree to the adoption of the identified ATFM FIXM messages data attributes, mapping, and the associated message templates, based on FIXM version 4.3, as regional standard templates effective Q1/2027; and
- d) discuss any relevant matters as appropriate.

Draft Conclusion ATFM/SG/16: Adoption of ATFM FIXM Message Data Attributes and Associated Message Templates Based on FIXM Version 4.3 as Asia/Pacific Regional Standard		
What:	Adopt the ATFM FIXM message data attributes and associated message templates (Appendix A, B, and C), based on FIXM Version 4.3, as Asia/Pacific regional standard templates effective Q1/2027 to support cross-border ATFM information exchange via SWIM.	Expected impact: <input type="checkbox"/> Political/Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why:	To support harmonised and automated message validation for cross-border ATFM system to system data exchanges, in alignment with Conclusion APANPIRG/35/4	Follow-up: <input type="checkbox"/> Required from States
When:	10-Apr-26	Status: Draft to be adopted by Subgroup
Who:	<input checked="" type="checkbox"/> Subgroups <input checked="" type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input checked="" type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: SWIM TF	



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