

APPENDIX 7 - EICD2.0.0 CORRESPONDENCE MATRIX

EARTH OBSERVATION DATA CENTRE (EODC) – EO PROCESSING

IT FRAMEWORK CONTRACT EMSA 2016/OP/25/2015

Module 1: EODC Lot 1 - Implementation



European Maritime Safety Agency

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SCOPE

1.1 IDENTIFICATION

This document contains the correspondence matrix between all EOP packages, as described by the EICD2.0 schemas, the EO-Processing databases and the OGC web-services (WFS and CSW) of EO-Processing System, as of version v1.5_RC1, which is part of EMSA's Earth Observation Data Centre (EODC).

Section 2 - **EICD2.0.0 Schema Fields on Database** - identifies the correspondence between EICD2.0 schema fields and the EOP database columns.

Section 3 - **EICD2.0.0 Schema Fields Absent on Database** - identifies EICD2.0 schema fields that are not read by EOP and therefore are not present on its database schemas.

Section 374 - **OGC Web-Service Fields on Database** – identifies the correspondence between OGC Web-Service fields (WFS and CSW) and EOP database columns.

Each of the 3 sections identified above respectively implements the requirements FX_EOR_DOC_0458, FX_EOR_DOC_0459 and FX_EOR_DOC_0460 of RFC artf66073.

1.2 RELATIONSHIP TO OTHER PLANS

This document is related mainly with the EICD_2.0.0 document [AD 1] which describes the external interfaces of the EOP system.

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2. EICD2.0.0 SCHEMA FIELDS ON DATABASE

2.1 ACT ON GEOSERVICES DB

DB Table	Xml Field	DB Column
Activity	At Activity/	
	id	activityId
	pos	
	activityType	
	activitySubType	
	activityDescription	
	confidenceLevel	
	activityConfidenceLevel	
	activityClipImage	
	timeStamp	tStamp
	source	
	length	
	lengthError	
	area	
	areaError	
	width	
	widthError	
	comment	comment_
	positionAccuracyVector/x	posAccuracyVectorX
	positionAccuracyVector/y	posAccuracyVectorY
	At Activity/activityRequest/	
	requestDescription	
	At Activity/activityArea/Polygon/exterior/LinearRing/	
	posList	activityArea

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DB Table	Xml Field		DB Column
ActivityAois	At Activity/activityRequest/AOIs/AOI/Polygon/exterior/LinearRing/		
	posList		aoi
ActivityOtherFeature	At Activity/otherFeaturesAssociated/feature/		
	otherFeatureId		
	otherFeatureDescription		
	changeStatus		
	referenceToOtherFeatureId		
	changeDescription		
	pos		
	featureSize		
	otherFeatureClipImage		
ActivityVesselImageIdentifier	At Activity/associatedVessels/vessel/		
	imageIdentifier		
	imageIdentifier/@type		imageIdentifier_type
ActivityVesselIdentification	At Activity/associatedVessels/vessel/vesselIdentification/		
	IMONumber		imoNumber
	MMSI		
	shipName		
	callSign		
	vesselIdentificationConfidenceLevel		vesselIdConfLevel
	orderOfPriority		

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DB Table	Xml Field	DB Column
ActivityAssociatedVessel	At Activity/associatedVessels/vessel/	
	id	avIdentifier
	includeInReport	Report
	pos	
	timestamp	tStamp
	heading	route
	speedClassification	
	speed	
	speedError	
	lengthClass	
	length	
	lengthError	
	width	
	widthError	
	vesselType	
	vesselTypeConfidence	
	confidenceLevel	
	shipThumbnail	
	dopplerOffset/x	dopplerOffsetX
	dopplerOffset/y	dopplerOffsetY
	positionAccuracyVector/x	posAccuracyX
	positionAccuracyVector/y	posAccuracyY
	At Activity/associatedVessels/vessel/detectionParameters/	
	RCS	
	maxPixelValue	

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2.2 CDS ON GEOSERVICES DB

DB Table	Xml Field	DB Column
Change	At ChangeDetection/	
	id	changeId
	imageIdentifier	
	referenceImageIdentifier	
	change	
	timeStamp	
	referenceTimeStamp	
	clipImage	
	referenceClipImage	
	imageIdentifier/@type	sensorType
	referenceImageIdentifier/@type	referenceSensorType
	At ChangeDetection/activityRequest/	
	requestDescription	
CDetectionAois	At ChangeDetection/activityRequest/AOIs/AOI/ Polygon/exterior/LinearRing/	
	posList	aoi
Change_Ship	At ChangeDetection/vesselChange/	
	id	entityId
	referenceId	referenceEntityId
	changeStatus	
	changeConfidence	
	changeDescription	

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DB Table	Xml Field	DB Column
Change_Ship	pos	
	heading	
	length	
	width	
	timeStamp	
	confidenceLevel	
	imageIdentifier	
	headingError	
	speed	
	speedError	
	lengthError	
	widthError	
	vesselType	
	vesselTypeConfidence	
	vesselClipImage	
	vesselStatus	
	vesselComment	
	speedClassification	
	positionAccuracyVector/x	posAccuracyX
	positionAccuracyVector/y	posAccuracyY
	dopplerOffset/x	dopplerOffsetX
	dopplerOffset/y	dopplerOffsetY
	imageIdentifier/@type	sensorType
	At ChangeDetection/vesselChange/detectionParameters/	
	RCS	
	maxPixelValue	

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EICD2.0.0 CORRESPONDENCE MATRIX

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DB Table	Xml Field	DB Column
Change_Feature	At ChangeDetection/featureChange/	
	id	entityId
	referenceId	referenceEntityId
	changeStatus	
	changeConfidence	
	changeDescription	
	id	featureId
	featureDescription	
	location	
	perimeter	
	timestamp	
	imageIdentifier	
	confidenceLevel	
	status	
	typeDescription	
	typeConfidence	
	sourceInformation	
	length	
	width	
	area	
	lengthError	
	widthError	
	areaError	
	clipImage	
	comment	comment_
	dopplerOffset/x	dopplerOffsetX
	dopplerOffset/y	dopplerOffsetY
	positionAccuracyVector/x	posAccuracyX
	positionAccuracyVector/y	posAccuracyY
	imageIdentifier/@type	sensorType

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EARTH OBSERVATION DATA CENTRE (EODC) – EO PROCESSING

DB Table	Xml Field	DB Column
Change_Feature	At ChangeDetection/featureChange/detectionParameters/	
	RCS	
	maxPixelValue	
	At ChangeDetection/featureChange/activityRequest/	
	requestDescription	
	At ChangeDetection/featureChange/	
Change_Feature_Aoi	At ChangeDetection/featureChange/activityRequest/AOIs/AOI/Polygon/exterior/LinearRing/	
	posList	aoi

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DB Table	Xml Field	DB Column
Change_Activity	At ChangeDetection/activityChange/	
	id	entityId
	referenceId	referenceEntityId
	changeStatus	
	changeConfidence	
	changeDescription	
	id	activityId
	pos	
	activityType	
	activitySubType	
	activityDescription	
	confidenceLevel	
	activityConfidenceLevel	
	activityClipImage	
	timeStamp	tStamp
	source	
	length	
	lengthError	
	area	
	areaError	
	width	
	widthError	
	comment	comment_
	positionAccuracyVector/x	posAccuracyVectorX
	positionAccuracyVector/y	posAccuracyVectorY
	At ChangeDetection/activityChange/activityRequest/	
	requestDescription	
	At ChangeDetection/activityChange/activityArea/ Polygon/exterior/LinearRing/	
	posList	activityArea
Change_Activity_Aoi	At ChangeDetection/activityChange/activityRequest/ AOIs/AOI/Polygon/exterior/LinearRing/	
	posList	aoi

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DB Table	Xml Field	DB Column
Change_Oilspill	At ChangeDetection/oilspillChange/	
	id	entityId
	referenceId	referenceEntityId
	changeStatus	
	changeConfidence	
	changeDescription	
	eventid	
	name	
	origin	
	timeStamp	tStamp
	classificationLevel	reliabilityIndex
	dataSource	
	distanceFromCoast	
	auxiliaryDataRef/auxiliaryData/ dataDescription	description
	center/pos	center
	composition/oilType	composition_oilType
	composition/oilSubType	composition_oilSubType
	composition/age	composition_age
	At ChangeDetection/oilspillChange/meteoConditions/	
	SARWind/windIntensity	meteoCond_sarWindIntensity
	SARWind/windDirection	meteoCond_sarWindDirection
	SARWind/dataType	meteoCond_sarWindDataType
	SARWind/dataSource	meteoCond_sarWindDataSource
	meteoWind/windIntensity	meteoCond_windIntensity
	meteoWind/windDirection	meteoCond_windDirection
	meteoWind/dataType	meteoCond_windDataType
	meteoWind/dataSource	meteoCond_windDataSource

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DB Table	Xml Field	DB Column
	sea/waveHeight	meteoCond_waveHeight
	sea/waveLength	meteoCond_waveLength
	sea/waveDirection	meteoCond_waveDirection
	sea/currentIntensity	meteoCond_CurrentIntensity
	sea/currentDirection	meteoCond_CurrentDirection
	sea/dataSource	meteoCond_waveDataSource
	sea/dataType	meteoCond_waveDatatype
	At ChangeDetection/oilspillChange/extension/	
	orientation	
	thickness	
	length	
	lengthError	
	area	
	areaError	
	volume	
	width	
	widthError	
	comment	comment_
	alignedWithTrack	
Change_Oil_Extension	At ChangeDetection/oilspillChange/geometry/Polygon/ metaDataProperty/GenericMetaData/extension/	
	area	
	areaError	
	width	
	widthError	
	length	
	lengthError	
	At ChangeDetection/oilspillChange/geometry/Polygon/ exterior/LinearRing/	
	posList	geometry

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DB Table	Xml Field	DB Column
Change_Oil_PossibleSource	At ChangeDetection/oilspillChange/possibleSource/	
	sourceType	source_type
	sourceTrack	
	At ChangeDetection/oilspillChange/possibleSource/ sourceDetection/	
	detected	
	distanceToSpill	
	sourcePosition/position	position
	sourcePosition/time	time
	At ChangeDetection/oilspillChange/possibleSource/ sourceIdentification/	
	identified	identified_
	At ChangeDetection/oilspillChange/possibleSource/ sourceIdentification/identity/	
	IMO	vessel_imo
	MMSI	vessel_mmsi
	name	
	callSign	
Change_Oil_AuxDataRef	At ChangeDetection/oilspillChange/auxiliaryDataRef/ auxiliaryData/	
	dataKey	
	dataDescription	
	dataReference	

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2.3 EFS ON GEO SERVICES DB

DB Table	Xml Field	DB Column
Feature	At FeatureClassification/	
	id	featureId
	featureDescription	
	location	
	perimeter	
	timeStamp	
	imageIdentifier	
	confidenceLevel	
	status	
	typeDescription	
	typeConfidence	
	sourceInformation	
	length	
	width	
	area	
	lengthError	
	widthError	
	areaError	
	clipImage	
	comment	comment_
	dopplerOffset/x	dopplerOffsetX
	dopplerOffset/y	dopplerOffsetY
	positionAccuracyVector/x	posAccuracyX
	positionAccuracyVector/y	posAccuracyY
	imageIdentifier/@type	sensorType
	detectionParameters/RCS	RCS
	detectionParameters/maxPixelValue	maxPixelValue
	activityRequest/requestDescription	requestDescription
Feature_Aoi	At FeatureClassification/activityRequest/AOIs/AOI/Polygon/exterior/LinearRing/	
	posList	aoi

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2.4 EOP ON DELIVERY DB

DB Table	Xml Field	DB Column
Eop_Package & Eopo_Package	At EarthObservation/metaDataProperty/EarthObservationMetaData/	
	identifier	
	acquisitionType	
	acquisitionSubType	
	productType	
	status	
	At EarthObservation/metaDataProperty/EarthObservationMetaData/ downlinkedTo/DownlinkInformation/	
	acquisitionStation	
	acquisitionDate	
	At EarthObservation/validTime/TimePeriod/	
	beginPosition	
	endPosition	
	At EarthObservation/using/EarthObservationEquipment/ platform/Platform/	
	shortName	latformShortName
	serialIdentifier	platformSerialId
	At EarthObservation/using/EarthObservationEquipment/ instrument/Instrument/	
	shortName	instrumentShortName
	At EarthObservation/using/EarthObservationEquipment/ sensor/Sensor/	
	sensorType	
	operationalMode	sensorOpMode
	resolution	sensorResolutionValue
	At EarthObservation/target/Footprint/centerOf/Point/	
	pos	centerOf
	@srsName	centerOfSrsName
	At EarthObservation/target/Footprint/multiExtentOf/MultiSurface/	
	@srsName	multiExtentOfSrsName

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DB Table	Xml Field	DB Column
Eop_Package & Eopo_Package	EarthObservation/target/Footprint/multiExtentOf/MultiSurface/surfaceMembers/Polygon/exterior/LinearRing/	
	posList	multiExtentOf
	At EarthObservation/resultOf/EarthObservationResult/browse/BrowseInformation/	
	fileName	resultBrowseFilename
	referenceSystemIdentifier	resultBrowseRefSysId
	type	resultBrowseType
	At EarthObservation/using/EarthObservationEquipment/acquisitionParameters/Acquisition/	
	orbitNumber	
	orbitDirection	
Eop_Package	incidenceAngle	
	acrossTrackIncidenceAngle	
	alongTrackIncidenceAngle	
	minimumIncidenceAngle	
	maximumIncidenceAngle	
	incidenceAngleVariation	
	numberPixels	
	numberColumns	
	numberRows	
	numberBands	
	polarisationMode	
	polarisationChannels	
	illuminationAzimuthAngle	
	illuminationZenithAngle	
	illuminationElevationAngle	
Result_Product_Eop & Result_Product_Eopo	At EarthObservation/resultOf/EarthObservationResult/product/ProductInformation/	
	fileName	
	referenceSystemIdentifier	refSysId
	size	sizeValue
	version	

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2.5 EVS ON GEOSERVICES DB

DB Table	Xml Field	DB Column
DetectedShips	At VesselClassification/	
	heading	route
	headingError	routeError
	speed	velocity
	speedError	velocityError
	length	
	lengthError	
	width	
	widthError	
	confidenceLevel	
	includeInReport	
	Id	dsIdentifier
	vesselClipImage	shipThumbnail
	timestamp	tStamp
	pos	
	speedClassification	
	vesselType	
	vesselTypeConfidence	
	lengthClass	
	vesselStatus	status
	vesselComment	comment_
	positionAccuracyVector/x	posAccuracyX
	positionAccuracyVector/y	posAccuracyY
	dopplerOffset/x	dopplerOffsetX
	dopplerOffset/y	dopplerOffsetY
	detectionParameters/RCS	RCS
	detectionParameters/maxPixelValue	maxPixelValue
DSImageIdentifier	imageIdentifier	
	imageIdentifier/@type	imageIdentifier_type

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2.6 FDS ON GEOSERVICES DB

DB Table	Xml Field	DB Column
Feature	At FeatureDetection/	
	id	featureId
	featureDescription	
	Location	
	Perimeter	
	Timestamp	
	imageIdentifier	
	confidenceLevel	
	detectionParameters/RCS	RCS
	detectionParameters/maxPixelValue	maxPixelValue
	dopplerOffset/x	dopplerOffsetX
	dopplerOffset/y	dopplerOffsetY
	positionAccuracyVector/x	posAccuracyX
	positionAccuracyVector/y	posAccuracyY
	activityRequest/requestDescription	requestDescription
Feature_Aoi	imageIdentifier/@type	sensorType
	At FeatureDetection/activityRequest/AOIs/ AOI/Polygon/exterior/LinearRing/	
	posList	aoi

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2.7 MODELOUTPUT ON GEOSERVICES DB

DB Table	Xml Field	DB Column
OilspillModelOutput	OilSpillModelOutput/	
	modelid	
	timeStamp	tStamp
	dataSource	
	prediction	
	eventid	
	beachingOnCoast	beaching_coast
	beachingTime	beaching_time
	execution/runId	runId
	execution/ProcessSucceeded	process_succeeded
	At OilSpillModelOutput/calculation/	
	calculationDate	calc_date
	calculationName	calc_name
	duration	calc_duration
	timeResolution	calc_timeResolution
	numberOfParticles	calc_number_particles
	centreTrajectory	calc_centre_trajectory
	particleTrajectory	calc_particles_trajectory
	outletDepth	calc_outlet_depth
	scenarioName	calc_scenario_name
	scenarioDescription	calc_scenario_description
	stateOfOil	calc_state_oil
	oilThickness	calc_oil_thickness
	discharge/instantaneous	calc_instantaneous
	At OilSpillModelOutput/calculation/discharge/continuous/	
	totalFrom	total_from
	totalFrom	total_duration
	Amount	

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DB Table	Xml Field	DB Column
OilspillModelOutputCentre	At OilSpillModelOutput/centreTrajectory/MultiGeometry/ geometryMember/MultiPoint/pointMembers/Point/	
	pos	centerPoint
	At OilSpillModelOutput/centreTrajectory/MultiGeometry/ geometryMember/MultiPoint/pointMembers/Point/ metaDataProperty/GenericMetadata/extension/	
	timeStamp	tStamp

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2.8 OSN ON GEOSERVICES DB

DB Table	Xml Field	DB Column
OilSpill	At OilSpill/	
	eventid	
	name	
	origin	
	timeStamp	tStamp
	classificationLevel	reliabilityIndex
	dataSource	
	distanceFromCoast	
	center/pos	center
	composition/oilType	composition_oilType
	composition/oilSubType	composition_oilSubType
	composition/age	composition_age
	At OilSpill/meteoConditions/	
	SARWind/windIntensity	meteoCond_sarWindIntensity
	SARWind/windDirection	meteoCond_sarWindDirection
	SARWind/dataType	meteoCond_sarWindDataType
	SARWind/dataSource	meteoCond_sarWindDataSource
	meteoWind/windIntensity	meteoCond_windIntensity
	meteoWind/windDirection	meteoCond_windDirection
	meteoWind/dataType	meteoCond_windDataType
	meteoWind/dataSource	meteoCond_windDataSource
	sea/waveHeight	meteoCond_waveHeight
	sea/waveLength	meteoCond_waveLength
	sea/waveDirection	meteoCond_waveDirection
	sea/currentIntensity	meteoCond_CurrentIntensity
	sea/currentDirection	meteoCond_CurrentDirection
	sea/dataSource	meteoCond_waveDataSource
	sea/dataType	meteoCond_waveDatatype

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DB Table	Xml Field	DB Column
OilSpill	At OilSpill/auxiliaryDataRef/auxiliaryData/	
	dataDescription	description
	At OilSpill/extension/	
	orientation	
	thickness	
	length	
	lengthError	
	area	
	areaError	
	volume	
	width	
	widthError	
	comment	comment_
	alignedWithTrack	
Extension	At OilSpill/geometry/Polygon/metaDataProperty/ GenericMetaData/extension/	
	area	
	areaError	
	width	
	widthError	
	length	
	lengthError	
	At OilSpill/geometry/Polygon/exterior/LinearRing/	
	posList	geometry

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EARTH OBSERVATION DATA CENTRE (EODC) – EO PROCESSING

DB Table	Xml Field	DB Column
PossibleSource	At OilSpill/possibleSource/	
	sourceType	source_type
	sourceTrack	
	At OilSpill/possibleSource/sourceDetection/	
	detected	detected
	distanceToSpill	distanceToSpill
	At OilSpill/possibleSource/sourceDetection/sourcePosition/	
	position	
	time	
	At OilSpill/possibleSource/sourceIdentification/	
	identified	identified_
	At OilSpill/possibleSource/sourceIdentification/identity/	
	IMO	vessel_imo
	MMSI	vessel_mmsi
	name	
	callSign	
ImageIdentifier	At OilSpill/	
	imageIdentifier	
	imageIdentifier/@type	imageIdentifier_type
AuxiliaryDataRef	At OilSpill/auxiliaryDataRef/auxiliaryData/	
	dataKey	
	dataDescription	
	dataReference	
LocationClassification	At OilSpill/locationClassification/	
	country	
EventRelation	At OilSpill/relatedEvents/	
	alreadyInPreviousImage	
EventRelationIdentifier	identifier	ref_eventId

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2.9 PKG ON DELIVERY DB

DB Table	Xml Field	DB Column
Eodc_Package	At dataPackage/*/	
	@total	nrOfDetections
	At dataPackage/packageInfo/	
	dataPackageDescription	
	ftpTransmissionTime	
	operationType	
	packageId	
	packageType	
	serviceID	
	At dataPackage/eoProduct/	
	eopReference/fileName	eopReference
	@dataTakeOpportunityID	dtoId

2.10 QNO ON DELIVERY DB

DB Table	Xml Field	DB Column
Qno_Package	At QualityNotification/estimatedPositionDeviation/	
	onTheFly	
	At QualityNotification/estimatedPositionDeviation/ displacementVector/	
	line	displacementVectorLine
	column	displacementVectorColumn
	latitude	displacementVectorLatitude
	longitude	displacementVectorLongitude

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2.11 QUA ON DELIVERY DB

DB Table	Xml Field	DB Column
Qua_Package	At QualityReport/	
	coverageCompliance	
	usableArea	
	At QualityReport/cancellationAnomalyReport/	
	provider	
	timeStamp	
	description	
	correctiveActions	
	preventiveActions	
	At QualityReport/cloudCover/	
	cloudCoverPercentage	
	cloudCoverPercentageConfidence	
Qua_Ancillary	At QualityReport/ancillaryData/	
	ancillaryData	
	versionUpdate	

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2.12 VDS ON GEOSERVICES DB

DB Table	Xml Field	DB Column
DetectedShips	At Vessel/	
	heading	route
	speed	velocity
	speedError	velocityError
	length	
	width	
	confidenceLevel	
	includeInReport	
	id	dsIdentifier
	timeStamp	tStamp
	pos	
	lengthClass	
	imageIdentifier	
	positionAccuracyVector/x	posAccuracyX
	positionAccuracyVector/y	posAccuracyY
	dopplerOffset/x	dopplerOffsetX
	dopplerOffset/y	dopplerOffsetY
	detectionParameters/RCS	RCS
	detectionParameters/maxPixelValue	maxPixelValue
DSImageIdentifier	imageIdentifier	
	imageIdentifier/@type	imageIdentifier_type

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2.13 WDS ON GeoSERVICES DB

DB Table	Xml Field	DB Column
Wake_Detection	At WakeDetection/	
	id	wakeId
	timeStamp	
	wakeConfidenceLevel	
	imageIdentifier	
	wakeGeometry	
	wakeLength	
	wakeLengthError	
	wakeClipImage	
	imageIdentifier/@type	sensorType
	positionAccuracyVector/x	posAccuracyX
	positionAccuracyVector/y	posAccuracyY

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DB Table	Xml Field	DB Column
WakeShip	At WakeDetection/Vessel/	
	confidenceLevel	
	vesselId	
	pos	
	dopplerOffset/x	dopplerOffsetX
	dopplerOffset/y	dopplerOffsetY
	positionAccuracyVector/x	posAccuracyX
	positionAccuracyVector/y	posAccuracyY
	detectionParameters/RCS	RCS
	detectionParameters/maxPixelValue	maxPixelValue
	At WakeDetection/Vessel/VesselClassification/	
	heading	
	headingError	
	speed	
	speedError	
	length	
	lengthError	
	width	
	widthError	
	vesselType	
	vesselTypeConfidence	
	speedClassification	
	vesselClipImage	

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3. EICD2.0.0 SCHEMA FIELDS ABSENT ON DATABASE

3.1 ACT NOT ON GeoSERVICES DB

(There are no ACT fields absent from GeoServices database.)

3.2 CDS NOT ON GeoSERVICES DB

Xml Path	Xml Field
ChangeDetection/oilspillChange/	imageIdentifier
ChangeDetection/oilspillChange/imageIdentifier/	@type
ChangeDetection/oilspillChange/relatedEvents/	alreadyInPreviousImage
ChangeDetection/oilspillChange/relatedEvents/	identifier

3.1 EFS NOT ON GeoSERVICES DB

(There are no EFS fields absent from GeoServices database.)

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3.2 EOP NOT ON DELIVERY DB

Xml Path	Xml Field
EarthObservation/using/EarthObservationEquipment/ platform/Platform/	orbitType
EarthObservation/using/EarthObservationEquipment/sensor/Sensor/	swathIdentifier
EarthObservation/using/EarthObservationEquipment/ acquisitionParameters/Acquisition/	lastOrbitNumber
	ascendingNodeDate
	ascendingNodeLongitude
	startTimeFromAscendingNode
	completionTimeFromAscendingNode
	orbitDuration
	pitch
	roll
	yaw
	antennaLookDirection
EarthObservation/metaDataProperty/EarthObservationMetaData/	dopplerFrequency
	doi
	parentIdentifier
	imageQualityDegradation
	imageQualityDegradationQuotationMode
	composedOf/*
	subsetOf/*
EarthObservation/metaDataProperty/EarthObservationMetaData/ archivedIn/	linkedWith/*
	archivingCenter
EarthObservation/metaDataProperty/EarthObservationMetaData/ archivedIn/	archivingDate
	@codeSpace
EarthObservation/metaDataProperty/EarthObservationMetaData/ histograms/Histogram/	bandId
	min
	max
	mean
	stdDeviation

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EARTH OBSERVATION DATA CENTRE (EODC) – EO PROCESSING

Xml Path	Xml Field
EarthObservation/metaDataProperty/EarthObservationMetaData/ processing/ProcessingInformation/	compositeType
	method
	methodVersion
	processorName
	processorVersion
	processingLevel
	nativeProductFormat
EarthObservation/metaDataProperty/EarthObservationMetaData/ vendorSpecific/SpecificInformation/	localAttribute
	localValue
EarthObservation/resultOf/EarthObservationResult/ browse/BrowseInformation/	subType
EarthObservation/resultOf/EarthObservationResult/ mask/MaskInformation/	type
	format
	referenceSystemIdentifier
	filename
EarthObservation/validTime/TimePeriod/	begin
	end

3.3 EVS NOT ON GEOSERVICES DB

(There are no EFS fields absent from GeoServices database.)

3.4 FDS NOT ON GEOSERVICES DB

(There are no EFS fields absent from GeoServices database.)

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3.5 MODELOUTPUT NOT ON GEOSERVICES DB

Xml Path	Xml Field
OilSpillModelOutput/execution/	ProcessFailed

3.6 OSN NOT ON GEOSERVICES DB

Xml Path	Xml Field
OilSpill/extension/	density
	viscosity
OilSpill/possibleSource/sourceDetection/	detectionSensor
	sourceConnectedToSpill
OilSpill/analysisSpecific/	runId
OilSpill/analysisSpecific/slickTechParameter	parameter
	value
	description
	importance
OilSpill/meteoConditions/meteoWind/	dataValidity
OilSpill/meteoConditions/SARWind/	dataValidity

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3.7 PKG NOT ON DELIVERY DB

Xml Path	Xml Field
dataPackage/eoProduct/	totalEOPPackages
	currentEOPPackage
	@totalSlicesInThisPackage
dataPackage/eoProduct/eopReference/	identifier
dataPackage/oilSpills/	sceneFootprint
dataPackage/oilSpills/oilSpillReference/	identifier
	fileName
dataPackage/detectedVessels/detectedVesselReference/	sarDerivedFeature
	fileName
dataPackage/sarDerivedData/sarDerivedDataReference/	identifier
	fileName
dataPackage/qualityNotification/	identifier
	fileName
dataPackage/qualityReport/	identifier
	fileName
dataPackage/processRequest/	identifier
	fileName
dataPackage/activityDetection/activityDetectionReference/	identifier
	fileName
dataPackage/changeDetection/changeDetectionReference/	identifier
	fileName
dataPackage/enrichedVesselDetection/ enrichedVesselDetectionReference/	identifier
	fileName
dataPackage/featureDetection/featureDetectionReference/	identifier
	fileName
dataPackage/enrichedFeatureDetection/ enrichedFeatureDetectionReference/	identifier
	fileName
dataPackage/wakeDetection/wakeDetectionReference/	identifier
	fileName

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3.8 QNO NOT ON DELIVERY DB

Xml Path	Xml Field
QualityNotification/	id
	productIdentifier
	productIsAcceptable

3.9 QUA NOT ON DELIVERY DB

Xml Path	Xml Field
QualityReport/	id
	productIdentifier

3.1 VDS NOT ON GEO SERVICES DB

(There are no VDS fields absent from GeoServices database.)

3.1 WDS NOT ON GEO SERVICES DB

(There are no WDS fields absent from GeoServices database.)

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4. OGC WEB-SERVICE FIELDS ON DATABASE

4.1 ACTIVITY WFS ON GEOSERVICESDB

DB Table	WFS Field	DB Column
Activity	At Activity/	
	@id	id
	activityid	
	activityType	
	activitySubType	
	requestDescription	
	activityDescription	
	confidenceLevel	
	activityConfidenceLevel	
	activityClipImage	
	activityClipImageUrl	
	timeStamp	tStamp
	positionAccuracyVectorX	
	positionAccuracyVectorY	
	source	
	length	
	lengthError	
	area	
	areaError	
	width	
	widthError	
	comment	comment_
	At Activity/Surface/patches/PolygonPatch/exterior/LinearRing/	
	posList	activityArea

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DB Table	WFS Field		DB Column
Activity	At Activity/pos/Point/		
	pos		
ActivityAois	At Activity/AOIs/AOIs/		
	@id		id
	At Activity/AOIs/AOIs/AOI/Surface/patches/PolygonPatch/Exterior/LinearRing/posList/		
	AOI		
ActivityOtherFeature	At Activity/otherFeaturesAssociated/OtherFeaturesAssociated/		
	@id		id
	otherFeatureId		
	otherFeatureDescription		
	changeStatus		
	referenceToOtherFeatureId		
	changeDescription		
	positionAccuracyVectorX		
	positionAccuracyVectorY		
	featureSize		
	otherFeatureClipImage		
	otherFeatureClipImageUrl		
	At Activity/otherFeaturesAssociated/OtherFeaturesAssociated/pos/Point/		
	pos		
ActivityVesselImageIdentifier	At Activity/associatedVessels/AssociatedVessels/imageIdentifier/ShipImageIdentifierActivity/		
	@id		id
	identifier		imageidentifier
	type		imageidentifier_type
ActivityVesselIdentification	At Activity/associatedVessels/AssociatedVessels/vesselIdentifications/VesselIdentificationActivity/		
	@id		id
	IMONumber		
	MMSI		
	shipName		
	callSign		
	vesselIdentificationConfidenceLevel		vesselidconflvel
	orderOfPriority		

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4.2 CHANGE WFS ON GEOSERVICES DB

DB Table	Xml Field	DB Column
Change	At Change/	
	@id	id
	ServiceID	
	changeId	
	requestDescription	
	imageIdentifier	
	sensorType	
	referenceImageIdentifier	
	referenceSensorType	
	change	
	timeStamp	
	referenceTimeStamp	
	clipImage	
	clipImageUrl	
	referenceClipImage	
	referenceClipImageUrl	
CDetectionAois	At Change/AOIs/AOI/	
	@id	id
	At Change/AOIs/AOI/AOI/Surface/patches/PolygonPatch/ exterior/LinearRing/	
	posList	aoi

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EARTH OBSERVATION DATA CENTRE (EODC) – EO PROCESSING

DB Table	WFS Field	DB Column
Change_Activity	At Change/activityChange/	
	@id	id
	entityId	
	referenceEntityId	
	changeStatus	
	changeConfidence	
	changeDescription	
	activityType	
	activitySubType	
	requestDescription	
	activityDescription	
	confidenceLevel	
	activityClipImage	
	activityClipImageUrl	
	timeStamp	tStamp
	posAccuracyX	positionAccuracyVectorX
	posAccuracyY	positionAccuracyVectorY
	source	
	length	
	lengthError	
	area	
	areaError	
	width	
	widthError	
	comment	comment_
	At Change/activityChange/activityArea/ Surface/patches/PolygonPatch/exterior/LinearRing/	
	posList	activityArea
	At Change/activityChange/pos/Point/	
	pos	
Change_Activity_Aoi	At Change/activityChange/AOIs/AOI/	
	@id	id
	At Change/activityChange/AOIs/AOI/Surface/patches/PolygonPatch/ exterior/LinearRing/	
	posList	aoi

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EARTH OBSERVATION DATA CENTRE (EODC) – EO PROCESSING

DB Table	Xml Field	DB Column
Change_Ship	At Change/vesselChange/	
	@id	id
	entityId	
	referenceEntityId	
	changeStatus	
	changeConfidence	
	changeDescription	
	heading	
	length	
	width	
	posAccuracyX	
	posAccuracyY	
	dopplerOffsetX	
	dopplerOffsetY	
	timeStamp	
	confidenceLevel	
	imageIdentifier	
	sensorType	
	rcs	
	maxPixelValue	
	headingError	
	speed	
	speedError	
	lengthError	
	widthError	
	vesselType	
	vesselTypeConfidence	
	vesselClipImage	
	vesselClipImageUrl	
	vesselStatus	
	vesselComment	
	speedClassification	
	pos/Point/pos	pos

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EARTH OBSERVATION DATA CENTRE (EODC) – EO PROCESSING

DB Table	Xml Field	DB Column
Change_Feature	At Change/featureChange/	
	@id	id
	entityId	
	referenceEntityId	
	changeStatus	
	changeConfidence	
	changeDescription	
	ServiceID	
	featureId	
	featureDescription	
	rcs	
	maxPixelValue	
	dopplerOffsetX	
	dopplerOffsetY	
	posAccuracyX	
	posAccuracyY	
	requestDescription	
	timeStamp	
	imageIdentifier	
	sensorType	
	confidenceLevel	
	Status	
	typeDescription	
	typeConfidence	
	sourceInformation	

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EARTH OBSERVATION DATA CENTRE (EODC) – EO PROCESSING

DB Table	Xml Field	DB Column
Change_Feature	length	
	width	
	area	
	lengthError	
	widthError	
	areaError	
	clipImage	
	comment	comment_
	perimeter/Point/pos	location
	At Change/featureChange/perimeter/Surface/patches/PolygonPatch/ Exterior/LinearRing/	
	posList	perimeter
Change_Feature_Aoi	At Change/featureChange/activityRequest/ AOIs/AOI/Polygon/exterior/LinearRing/	
	posList	aoi

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EARTH OBSERVATION DATA CENTRE (EODC) – EO PROCESSING

DB Table	Xml Field	DB Column
Change_Oilspill	At ChangeDetection/oilspillChange/	
	id	entityId
	referenceId	referenceEntityId
	changeStatus	
	changeConfidence	
	changeDescription	
	eventid	
	name	
	origin	
	timeStamp	tStamp
	classificationLevel	reliabilityIndex
	dataSource	
	distanceFromCoast	
	center/pos	center
	composition/oilType	composition_oilType
	composition/oilSubType	composition_oilSubType
	composition/age	composition_age
	At ChangeDetection/oilspillChange/auxiliaryDataRef/auxiliaryData/	
	dataDescription	description
	At ChangeDetection/oilspillChange/meteoConditions/	
	SARWind/windIntensity	meteoCond_sarWindIntensity
	SARWind/windDirection	meteoCond_sarWindDirection
	SARWind/dataType	meteoCond_sarWindDataType
	SARWind/dataSource	meteoCond_sarWindDataSource
	meteoWind/windIntensity	meteoCond_windIntensity
	meteoWind/windDirection	meteoCond_windDirection
	meteoWind/dataType	meteoCond_windDataType
	meteoWind/dataSource	meteoCond_windDataSource

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EARTH OBSERVATION DATA CENTRE (EODC) – EO PROCESSING

DB Table	Xml Field	DB Column
	sea/waveHeight	meteoCond_waveHeight
	sea/waveLength	meteoCond_waveLength
	sea/waveDirection	meteoCond_waveDirection
	sea/currentIntensity	meteoCond_CurrentIntensity
	sea/currentDirection	meteoCond_CurrentDirection
	sea/dataSource	meteoCond_waveDataSource
	sea/dataType	meteoCond_waveDatatype
	At ChangeDetection/oilspillChange/extension/	
	orientation	
	thickness	
	length	
	lengthError	
	area	
	areaError	
	volume	
	width	
	widthError	
	comment	comment_
	alignedWithTrack	
Change_Oil_Extension	At ChangeDetection/oilspillChange/geometry/Polygon/ metaDataProperty/GenericMetaData/extension/	
	area	
	areaError	
	width	
	widthError	
	length	
	lengthError	
	At ChangeDetection/oilspillChange/geometry/Polygon/ exterior/LinearRing/	
	posList	geometry

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DB Table	Xml Field	DB Column
Change_Oil_PossibleSource	At ChangeDetection/oilspillChange/possibleSource/	
	sourceType	source_type
	sourceTrack	
	At ChangeDetection/oilspillChange/possibleSource/ sourceDetection/	
	detected	
	distanceToSpill	
	sourcePosition/position	position
	sourcePosition/time	time
	At ChangeDetection/oilspillChange/possibleSource/ sourceIdentification/	
	identified	identified_
	At ChangeDetection/oilspillChange/possibleSource/ sourceIdentification/identity/	
	IMO	vessel_imo
	MMSI	vessel_mmsi
	name	
	callSign	
Change_Oil_AuxDataRef	At ChangeDetection/oilspillChange/auxiliaryDataRef/ auxiliaryData/	
	dataKey	
	dataDescription	
	dataReference	

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4.3 CSW ON DELIVERY DB

DB Table	Xml Field	DB Column
Eodc_Package	At entry/PlannedAcquisition/	
	dtoID	
	At entry/EarthObservation/parameter/NamedValue/ [name@title="inventoryStatus"]value/ ValueArray/valueComponent/	
	AbstractValue	deliveryStatus
Eop_Package & Eopo_Package	At entry/	
	id	identifier
	title	identifier
	identifier	
	date	beginPosition / endPosition
	At EarthObservation/phenomenonTime/TimePeriod/	
	beginPosition	
	endPosition	
	At entry/EarthObservation/metaDataProperty/ EarthObservationMetaData/	
	doi	
	acquisitionType	
	acquisitionSubType	
	productType	
	status	
	At entry/EarthObservation/metaDataProperty/ EarthObservationMetaData/DownlinkInformation/	
	acquisitionStation	
	acquisitionDate	
	At entry/EarthObservation/procedure/EarthObservationEquipment/ sensor/Sensor/	
	sensorType	
	operationalMode	sensorOpMode
	resolution	sensorResolutionValue

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DB Table	Xml Field	DB Column
Eop_Package & Eopo_Package	At entry/EarthObservation/procedure/EarthObservationEquipment/ platform/Platform/	
	shortName	platformShortName
	At entry/EarthObservation/procedure/EarthObservationEquipment/ instrument/Instrument/	
	shortName	instrumentShortName
	At entry/EarthObservation/featureOfInterest/Footprint/ multiExtentOf/MultiSurface/surfaceMembers/Polygon/ exterior/LinearRing/	
	posList	multiExtentOf
	At entry/EarthObservation/featureOfInterest/Footprint/ centerOfPoint/	
	Pos	centerOf
	At entry/PlannedAcquisition/	
	serviceProvider1	
	serviceProvider2	
	cartIdentifier	
	cartName	
	flexibleArea	
	flexibleTime	
	area	
	serviceType	
	At entry/AffectedAlertAreas/	
	alertArea	affectedAlertAreas

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EARTH OBSERVATION DATA CENTRE (EODC) – EO PROCESSING

DB Table	Xml Field	DB Column
Eop_Package & Eopo_Package	At entry/EarthObservation/procedure/EarthObservationEquipment/ acquisitionParameters/Acquisition/	
	orbitNumber	
	orbitDirection	
Eop_Package	acrossTrackIncidenceAngle	
	alongTrackIncidenceAngle	
	incidenceAngle	
	polarisationMode	
	polarisationChannels	
	minimumIncidenceAngle	
	maximumIncidenceAngle	
	incidenceAngleVariation	
	numberPixels	
	numberColumns	
	numberRows	
	numberBands	
	illuminationAzimuthAngle	
	illuminationZenithAngle	
	illuminationElevationAngle	
Result_Product_Eop & Result_Product_Eopo	At entry/EarthObservation/result/EarthObservationResult/product/ ProductInformation/fileName/ServiceReference/	
	Abstract	filename
	At entry/EarthObservation/result/EarthObservationResult/product/ ProductInformation/	
	referenceSystemIdentifier	refSysId
	size	sizeValue
	version	

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DB Table	Xml Field	DB Column
Package_Projects	At entry/EarthObservation/parameter/NamedValue/ [name@title="operations"]value/ValueArray/valueComponent/	
	AbstractValue	name
Qua_Package	At entry/QualityReport/	
	usableArea	
	coverageCompliance	
	At entry/QualityReport/cancellationAnomalyReport/	
	timeStamp	
	description	
	correctiveActions	
	preventiveActions	
	At entry/QualityReport/cloudCover/	
	cloudCoverPercentage	
	cloudCoverPercentageConfidence	
Qua_Ancillary	At entry/QualityReport/ancillaryData/	
	ancillaryData	
	versionUpdate	

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4.4 FEATURE WFS ON GEOSERVICES DB

DB Table	Xml Field	DB Column
Feature	At Feature/	
	@id	id
	ServiceID	
	featureId	
	featureDescription	
	rcs	
	maxPixelValue	
	dopplerOffsetX	
	dopplerOffsetY	
	posAccuracyX	
	posAccuracyY	
	requestDescription	
	timeStamp	
	imageIdentifier	
	sensorType	
	confidenceLevel	
	status	
	typeDescription	
	typeConfidence	
	sourceInformation	

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DB Table	Xml Field	DB Column
Feature	length	
	width	
	area	
	lengthError	
	widthError	
	areaError	
	clipImage	
	clipImageUrl	
	comment	comment_
	At Feature/location/Point/	
	pos	location
	At Feature/perimeter/Surface/patches/PolygonPatch/ exterior/LinearRing/	
	posList	perimeter
Feature_Aoi	At Feature/AOIs/AOI/Surface/patches/PolygonPatch/ exterior/LinearRing/	
	posList	aoi

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4.5 OILSPILL WFS ON GEOSERVICES DB

DB Table	Xml Field	DB Column
OilSpill	At OilSpill/	
	@id	id
	eventid	
	ServiceID	
	name	
	description	
	origin	
	timeStamp	tstamp
	distanceFromCoast	
	reliabilityIndex	
	oilType	composition_oilType
	oilSubType	composition_oilSubType
	age	composition_age
	meteoWind_windIntensity	meteoCond_windIntensity
	meteoWind_windDirection	meteoCond_windDirection
	sea_waveHeight	meteoCond_waveHeight
	sea_waveLength	meteoCond_waveLength
	sea_waveDirection	meteoCond_waveDirection
	processingid	
	dataSource	
	sea_currentIntensity	meteoCond_currentIntensity
	sea_currentDirection	meteoCond_currentDirection
	comment	comment_
	orientation	
	thickness	
	SARWind_dataType	meteoCond_sarWindDataType
	meteoWind_dataType	meteoCond_windDataType

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DB Table	Xml Field	DB Column
OilSpill	At OilSpill/	
	length	
	lengthError	
	area	
	areaError	
	meteoWind_dataSource	meteoCond_windDataSource
	sea_dataSource	meteoCond_waveDataSource
	volume	
	sea_dataType	
	width	
	widthError	
	SARWind_windIntensity	meteoCond_sarWindIntensity
	SARWind_windDirection	meteoCond_sarWindDirection
	SARWind_dataSource	meteoCond_sarWindDataSource
	alignedWithTrack	
	feedback_type	
	pollution_type	
	observation_method	
	feedbackdate	
	oilspillClass	
	nbrOfSlicks	
	coveragePercentage	
	At OilSpill/center/Point/	
	pos	center

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EARTH OBSERVATION DATA CENTRE (EODC) – EO PROCESSING

DB Table	Xml Field	DB Column
Extension	At OilSpill/extension/Extension/	
	@id	id
	area	
	areaError	
	width	
	widthError	
	length	
	lengthError	
	density	
	volume	
	alignedWithTrack	
	thickness	
	viscosity	
	coveragePercentage	
	centreLat	
	centreLon	
	beginPosLat	
	beginPosLon	
	endPosLat	
	endPosLon	
	At OilSpill/extension/Extension/geometry/Surface/patches/ PolygonPatch/exterior/LinearRing/	
	posList	geometry
AuxiliaryDataRef	At OilSpill/auxiliaryDataRef/AuxiliaryDataReference/	
	@id	id
	dataKey	
	dataReference	
	dataDescription	
ImageIdentifier	At OilSpill/imageIdentifier/ImageIdentifier/	
	@id	id
	identifier	imageIdentifier
	type	imageIdentifier_type

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DB Table	Xml Field	DB Column
LocationClassification	At OilSpill/locationClassification/LocationClassification/	
	@id	id
	country	
PossibleSource	At OilSpill/possibleSources/possibleSource/	
	@id	id
	identifier	
	vesselConnected	
	sourceType	
	sourceTrack	
	detected	
	distanceToSpill	
	time	
	identified	
	IMO	vessel_imo
	name	
	MMSI	vessel_mmsi
	callSign	
	At OilSpill/possibleSources/possibleSource/position/Point/	
	pos	position
EventRelation	At OilSpill/relatedEvents/RelatedEvents/	
	@id	id
	relationType	type
	alreadyInPreviousImage	
EventRelationIdentifier	identifier	ref_eventid
X_Operation	At OilSpill/operations/Operation/	
	@id	id
	operationName	

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4.6 OILSPILLMODELOUTPUT WFS ON GEOSERVICES DB

DB Table	WFS Field		DB Column
OilSpillModelOutput	At Change/activityChange/		
	@id		id
	eventid		
	runId		
	fk_oilspill		
	prediction		
	calculationDate		calc_date
	duration		calc_duration
	timeResolution		calc_timeresolution
	numberOfParticles		calc_number_particles
	outletDepth		calc_outlet_depth
	scenarioName		calc_scenario_name
	scenarioDescription		calc_scenario_description
	stateOfOil		calc_state_oil
	instantaneous		calc_instantaneous
	totalFrom		total_from
	totalDuration		total_duration
	amount		
OilSpillModelOutputCentre	At OilSpillModelOutput/CentreTrajectory/centreTrajectory/		
	@id		id
	center/Point/pos		centerpoint

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4.7 SHIP WFS ON GeoSERVICES DB

DB Table	WFS Field	DB Column
DetectedShips	At Ship/	
	@id	id
	ServiceID	
	includeInReport	report
	dopplerOffsetX	
	dopplerOffsetY	
	positionAccuracyX	
	positionAccuracyY	
	timeStamp	
	heading	
	headingError	
	speedClassification	
	velocity	
	velocityError	
	lengthClass	
	length	
	lengthError	
	width	
	widthError	
	vesselType	
	vesselTypeConfidence	
	qualityFactor	
	RCS	
	maxPixelValue	
	shipThumbnail	
	status	
	comment	comment_
	shipThumbnailURL	
	pos/Point/pos	center

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DB Table	WFS Field	DB Column
DslImageIdentifier	At Ship/imageIdentifier/ShipImageIdentifier/	
	@id	id
	identifier	imageidentifier
	type	imageidentifier_type
VesselIdentification	At Ship/vesselIdentifications/VesselIdentification/	
	@id	id
	IMONumber	
	MMSI	
	shipName	
	callSign	
	vesselIdConfLevel	
	orderOfPriority	
X_Operation	At Ship/operations/ShipOperation/	
	@id	id
	operationName	

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4.8 WAKE WFS ON GEOSERVICES DB

DB Table	WFS Field	DB Column
Wake	At Wake/	
	@id	id
	ServiceID	
	wakeId	
	timeStamp	
	wakeConfidenceLevel	
	imageIdentifier	
	sensorType	
	posAccuracyX	
	posAccuracyY	
	wakeLength	
	wakeLengthError	
	wakeClipImage	
	wakeClipImageUrl	
	At Wake/wakeGeometry/Surface/patches/PolygonPatch/ exterior/LinearRing/	
	posList	wakeGeometry

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DB Table	WFS Field	DB Column
Wake_Ship	At Wake/vessels/WakeVessel/	
	@id	id
	rcs	
	maxPixelValue	
	dopplerOffsetX	
	dopplerOffsetY	
	posAccuracyX	
	posAccuracyY	
	confidenceLevel	
	vesselId	
	heading	
	headingError	
	speed	
	speedError	
	length	
	lengthError	
	width	
	widthError	
	vesselType	
	vesselTypeConfidence	
	vesselClipImage	
	vesselClipImageUrl	
	speedClassification	
	At Wake/vessels/WakeVessel/pos/Point/	
	pos	

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5. ACRONYMS AND ABBREVIATIONS

ACT	Activity packge
DB	DataBase
CDS	Change Detection Service package
CSNDC	CleanSeaNet Data Center
CSW	(OGC) Catalog Service of the Web
EFS	Enriched Feature Service package
EICD	External Interface Control Document
EODC	Earth Observation Data Center
EOP	Earth Observation Package
EOPO	Earth Observation Package (Optical)
EVS	Enriched Vessel Service package
FDS	Feature Detection Service package
OGC	Open Geospatial Consortium
OSN	Oil-Spill Notification package
QNO	Quality NOTification package
QUA	QUALity report package
RFC	Request for Change
VDS	Vessel Detection Service package
WDS	Wake Detection Service package
WFS	(OGC) Web Feature Service

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