ONE Record Data Model
Version as of 09.04.2020

Quote & Book process
Version as of 09.04.2020

Legend
- ...
- ...
- * Mandatory elements
- (n) multiple elements / arrays

Common Objects

VOLUMETRIC_WEIGHT
- Vweight_URI
- ConversionFactor: VALUE
- ChargableWeight: VALUE

DIMENSIONS
- DimsURI
- Width: VALUE
- Length: VALUE
- Height: VALUE
- Volume: VALUE

GEOLOCATION
- GeolocURI
- Latitude: VALUE
- Longitude: VALUE
- Elevation: VALUE

ADDRESS
- AddressURI
- Street (n): text
- POBox: text
- PostalCode: text
- CityCode: text
- CityName: text
- RegionCode: text
- RegionName: text
- AddressType: text
- AddressCode (n): text
- Country: COUNTRY

OTHER_PARTY
- OtherPartyURI
- RoleName: text
- CompanyDetails: COMPANY

OTHER_IDENTIFIER
- OtherIdURI
- Type: text
- Identifier: text

COMPANY
- CompanyURI
- Name: text
- IATACargoAgentCode: numerical
- AirlineCode: text
- AirlinePrefix: numerical
- Branch: BRANCH

BRANCH
- BranchURI
- BranchName: text
- IATACargoAgentLocationIdentifier: numerical
- OtherIdentifier (n): OTHER_IDENTIFIER
- Location: LOCATION
- ContactPerson (n): PERSON

VALUE
- ValueURI
- Value: text
- Unit: text

PERSON
- PersonURI
- ContactType: text
- Salutation: text
- FirstName: text
- MiddleName: text
- LastName: text
- JobTitle: text
- Department: text
- EmployeeID: text
- Contact (n): CONTACT

CONTACT
- ContactURI
- PhoneNumber: text
- EmailAddress: text
- ContactOther: CONTACTOTHER

CONTACTOTHER
- ContactOtherURI
- Type: text
- Detail: text

COUNTRY
- CountryURI
- CountryCode: text
- CountryName: text

LOCATION
- LocURI
- Type: text
- Code: text
- Name: text
- Geolocation: GEOLOCATION
- Address: ADDRESS

EXTERNAL_REFERENCE
- External_refURI
- DocumentType: text
- DocumentName: text
- DocumentOriginator: COMPANY
- DocumentID: text
- DocumentVersion: text

EVENT
- EventURI
- EventTypeIndicator *: text
- DateTime *: dateTime
- EventCode: text
- EventName: text
- PerformedBy: COMPANY
- Location: LOCATION

IOT_DATA
- IOTURI
- tbd by ICTF

TRANSPORT_MEANS
- TransportMeansURI
- TransportCompany: COMPANY
- VehicleType: text
- VehicleRegistration: text
- VehicleSize: text
- TypicalFuelConsumption: VALUE
- TransportSegment: TRANSPOR_SEGMEN
- TypicalCO2Coefficient: Value

TRANSPORT_SEGMENT
- TransportSegmentURI
- DepartureLocation: LOCATION
- ArrivalLocation: LOCATION
- DistanceMeasured: VALUE
- DistanceCalculated: VALUE
- ModeCode: text
- TransportIdentifier: text
- TransportDate: dateTime
- TransportMeans: TRANSPORT_MEANS
- ExternalReference (n): EXTERNAL_REFERENCE
- Seal: text
- TransportMeansOperator (n): PERSON
- Fuel_type: text
- Fuel_amount_measured: VALUE
- Fuel_amount_calculated: VALUE
- CO2Emissions: VALUE
- CO2CalculationMethod: CO2_CALC_METHOD
- ULDs (n): ULD
- Pieces (n): PIECE
- Event (n): EVENT

ULD
- ULDURI
- Type: text
- IATADesignator: text
- LoadingIndicator: text
- SerialNumber: text
- OwnerCodeIssuer: text
- OwnerCode: text
- OwnerCompany: COMPANY
- TareWeight: VALUE
- UPID (n): Piece
- TransportSegment (n): TRANSPORT_SEGMENT
- ExternalReference (n): EXTERNAL_REFERENCE
- DeckPosition: text
- Event (n): EVENT
- Contour: text

CO2_CALC_METHOD
- CO2MethodURI
- MethodName: text
- MethodVersion: alphanumerical

BOOKING
- BookingURI (incl. BookingRefNumber?)
- WaybillNumber: WAYBILL
- Offer: OFFER
- Consignee : COMPANY
- Shipper : COMPANY
- Carrier *: COMPANY
- NotifyParty (n): COMPANY
- FreightForwarder *: COMPANY
- Price: PRICE
- Event (n): EVENT

SHIPMENT
- ShipmentURI
- WayBillNumber *: WAYBILL
- ContainedPieces (n): PIECE
- GoodsDescription: text
- TotalPieceCount: numerical
- TotalSLAC: numerical
- TotalGrossWeight *: VALUE
- VolumetricWeight *(n): VOLUMETRIC_WEIGHT
- Dimensions (n): DIMENSIONS
- ExternalReference (n): EXTERNAL_REFERENCE
- Insurance: INSURANCE

WAYBILL
- WaybillURI
- WaybillNumber *
- ContainedWaybill (n): WAYBILL
- Type: text (House or Master)

PIECE
- PieceURI
- ContainedPiece (n): PIECE
- UPID: alphanumerical
- GoodsDescription *: text
- ProductionCountry (n): COUNTRY
- Shipper: COMPANY
- OtherParty (n): COMPANY
- TransportSegment (n): TRANSPORT_SEGMENT
- SLAC: numeric
- Dimensions: DIMENSIONS
- GrossWeight *: VALUE
- VolumetricWeight *:VOLUMETRIC_WEIGHT
- SpecialHandling (n): SPECIALHANDLING
- ServiceRequest (n): SERVICEREQUEST
- ExternalReference (n): EXTERNAL_REFERENCE
- OtherIdentifier (n): OTHER_IDENTIFIER
- ULDReference: ULD
- LoadType: text (Bulk or ULD)
- PackagingType: PACKAGINGTYPE
- Product: PRODUCT
- Event (n): EVENT
- SecurityStatus: SECURITY_STATUS
- AdditionalSecurityInformation (n): text
- CustomsInfo: CUSTOMS_INFO
- Coload: boolean
- Stackable: boolean
- Turnable: boolean

ITEM
- ItemURI
- OtherIdentifier (n): OTHER_IDENTIFIER
- Product *: PRODUCT
- Event: EVENT
- TargetCountry: COUNTRY
- UnitPrice: VALUE
- QuantityForUnitPrice: numerical
- Weight: VALUE
- Dimensions: DIMENSIONS
- BatchNumber: text
- LotNumber: text
- ProductExpiryDate: dateTime
- ProductionDate: dateTime
- ProductionCountry: COUNTRY
- IsInPiece: PIECE

PRODUCT *
- ProductURI
- Manufacturer: COMPANY
- ProductDescription: text
- ProductIdentifier: text
- OtherIdentifier (n): OTHER_IDENTIFIER
- Characteristic (n): CHARACTERISTICS
- UNNumber: text
- CommodityName: text
- CommodityCode *: text
- CommodityType *: text
- CommodityDescription *: text

CHARACTERISTICS
- CharacteristicsURI
- Type: text
- Value: text

SPECIALHANDLING
- SpecialHandlingURI
- Code: text

SERVICEREQUEST
- ServiceRequestURI
- Code: text
- Description: text
- StatementType (n): text
- StatementText: text

INSURANCE
- InsuranceURI
- CoveringParty: COMPANY
- InsuranceAmount: VALUE

CUSTOMS_INFO
- CustomsInfoURI
- CustomsInfoCountryCode: text
- CustomsNode: text
- CustomsInfoContentCode: text
- CustomsInformation: text
- CustomsInfoSubjectCode: text

PACKAGINGTYPE (incomplete)
- PackagingTypeURI
- Code: text
- Description: text

SECURITY_STATUS
- SecurityStatusURI
- StatusCode *: text
- IssuedOn *: dateTime
- IssuedBy *: COMPANY
- RegulatedPartyType *: text
- RegulatingAuthority: text
- ReasonsForSecurityStatus *: REASONSFOR
- ReceivedBy: COMPANY
- Piece: PIECE

REASONSFORSECURITYSTATUS
- ReasonsURI
- ReceivedFrom (n): RECEIVEDFROM
- ScreeningMethod (n): text
- GroundsForExemption (n): text
- OtherScreeningMethods (n): text

RECEIVEDFROM
- ReceivedFromURI
- RegulatedPartyType: text
- RegulatedEntityID: COMPANY
- ExpiryDate: dateTime

Offer
- OfferURI
- TransportMovement: TRANSPORT_SEGMENT
- Price: PRICE
- CarrierProductInfo (n): CARRIERPRODUCT
- Units (n): VALUE
- Routing: ROUTING
- RequestMatchInd: boolean
- SecurityState: alphanumerical (SCR / NSC)
- SpecialHandling: SPECIALHANDLING
- ServiceRequest: SERVICEREQUEST
- ShipmentDetails: SHIPMENT
- Commodity: PRODUCT
- DangerousGoods: DG

BookingRequest
- BookingRequestURI
- Status: text
- Offer or AllotmentCode: OFFER
- WaybillNumber: WAYBILL or alphanumerical

QuoteResponse
- QuoteResponseURI
- Request: QuoteRequest
- Offers (n): OFFER

QuoteRequest
- QuoteRequestURI
- TransportMovement: TRANSPORT_SEGMENT
- Parties (n): OTHER_PARTY
- UnitsPreference (n): VALUE
- RoutingPreferences: ROUTING
- RatingsPreferences: RATINGS
- ShipmentSecurityStatus: text (SCR / NSC)
- SpecialHandling: SPECIALHANDLING
- ServiceRequest: SERVICEREQUEST
- ShipmentDetails: SHIPMENT
- Commodity: PRODUCT
- DangerousGoods: DG
- Routing: ROUTING

ROUTING
- RoutingURI
- latestArrivalDateTime: dateTime
- maxConnections: numerical
- aircraftPossibilityCode: alphanumerical
- rfsInd: boolean
- OnlineInd: boolean

CARRIERPRODUCT
- CarrierProductURI
- ProductCode: alphanumerical
- ProductDescription: alphanumerical

PRICE
- PriceURI
- grandTotal: double
- Ratings: RATINGS
- ValidTo: dateTime

RATINGS
- RatingsURI
- priceSpecification: e.g. Street/Group/Spot etc
- priceSpecificationRef: string
- chargeType: string e.g. Freight / Surcharges
- chargeCode: enum e.g. MY / SC
- chargeDescription: enum e.g. Airfreight / Fuel
- subTotal: double
- ranges (n): RANGES

RANGES
- RangesURI
- rateClassCode: string e.g. Q
- ratingType: enum uldRatingType
- unitBasis: string e.g. Chargeable Weight
- scr: SpecificCommodityCode/ Commodity
- minimumQuantity: int
- maximumQuantity: int
- amount: double

DG
- DGURI
- classCode: string
- netQuantity: string
- packingGroup: string
- packingInstruction: string
- quantityUnits: string
- unidNumber: string