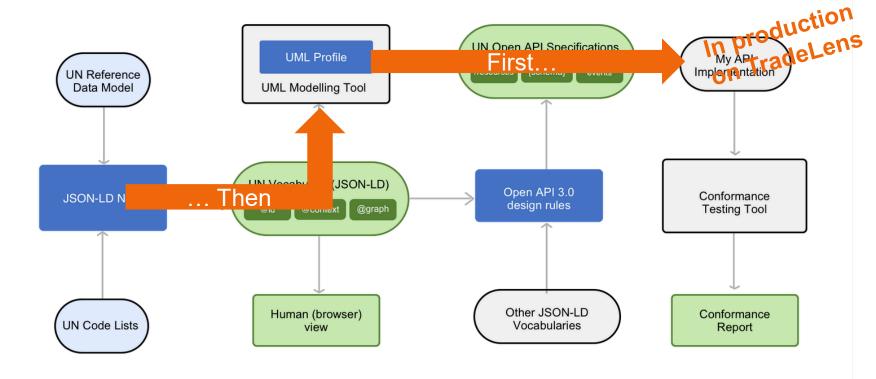
UN/CEFACT 2020 FORUM

OPENING SESSION: RDM2API PROJECTS STATUS UPDATE CASE: DESIGNING THE BILL OF LADING SCHEMA

5-OCT-2020

PRODUCTION-GRADE DEVELOPMENT SINCE LONDON (OCT 2019)

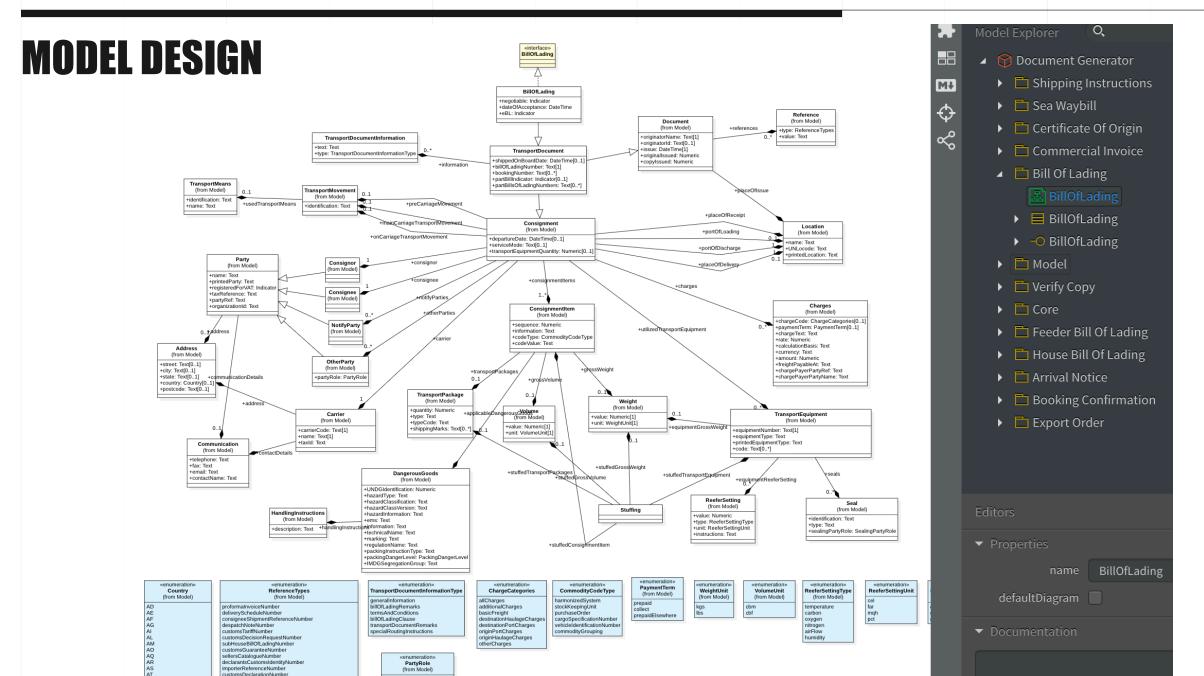
- RDM2API really gained traction a year ago in London.
- From this I've defined the BL schema (https://github.com/nissimsan/doc_generation), stabile in Production on TradeLens. Strengthening our edi3 method: nothing beats a real, demanding customer.
- More recently the model export has improved significantly. Somewhat reverse order, but I was in a hurry – art of the possible! :)



RDM2 API Methodology

8-Oct-20

3



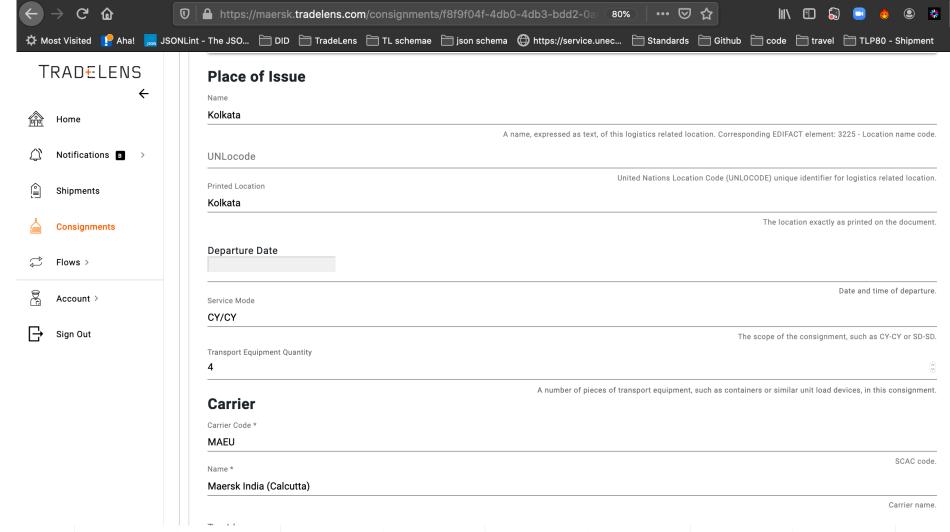
SWAGGER REPRESENTATION

BillOfLading ~ 1.1.3 ~

```
BillOfLading v {
   description:
                                Bill of Lading document.
   originatorName*
                                string
                                The proper name (human readable) of the entity that published this event.
   originatorId
                                string
                                The party identification code (i.e. SCAC) of the organization publishing the event.
   issue*
                                string($date-time)
                                A date, time, date time or other date time value for an issuance of this document.
   originalIssued
                                number
                                The number of originals issued for this document.
                                number
   copyIssued
                                The number of copies issued for this document.
   references
                                 > [...1
   placeOfIssue
                                Location > {...}
   departureDate
                                string($date-time)
                                Date and time of departure.
   serviceMode
                                string
                                The scope of the consignment, such as CY-CY or SD-SD.
   transportEquipmentQuantity
                                A number of pieces of transport equipment, such as containers or similar unit load devices, in this consignment.
   carrier*
                                Carrier > {...}
   consignor*
                                Consignor > {...}
```

TRADELENS 5

PRODUCTION EXAMPLE



(Selected data elements shown due to confidentiality)

RECENT DEVELOPMENTS

• Building the model by hand was suboptimal.

Now we have a beautiful jsonId graph exported!

In the IFTM project we're now re-creating the BL, and we can move to a fully model-driven approach.

American in the control of the contr

```
https://edi3.org/vocabulary/unece.jsonId
🌣 Most Visited 🗜 Aha! 💹 JSONLint - The JSO... 🗎 DID 🗎 TradeLens 🗎 TL schemae 🗎 json schema 🔀 https://service.unec... 🗎 Standards 🗎 Gith
      Raw Data Headers
Save Copy Pretty Print
 "@context": {
  "schema": "http://schema.org/",
  "unece": "https://unece.org/vocab#"
  "rdf": "http://www.w3.org/1999/02/22-rdf-syntax-ns#",
  "rdfs": "http://www.w3.org/2000/01/rdf-schema#",
  "cefact": "https://edi3.org/cefact#",
  "xsd": "http://www.w3.org/2001/XMLSchema#"
   "dc": "http://purl.org/dc/elements/1.1/"
     "@id": "unece:AccountingAccount",
    "etype": "rdfs:Class",
"rdfs:comment": "A specific trade account for recording debits and credits to general accounting, cost accounting or budget accounti
     "unece:cefactElementMetadata": [
         "@id": "cefact:Trade AccountingAccount.Details".
         "@type": "unece:AggregateBIE",
          "unece:cefactUNId": "cefact:UN01004522",
         "rdfs:comment": "A specific trade account for recording debits and credits to general accounting, cost accounting or budget acco
          'unece:cefactBusinessProcess": "Buy-Ship-Pay'
     "@id": "unece:Accreditation",
     "rdfs:comment": "A certified recognition that provides evidence of a level of competency in a given area, such as certifying a level
     "unece:cefactElementMetadata": [
         "@id": "cefact:Certified_Accreditation.Details",
        "@type": "unece:AggregateBIE",
```

➡ TransportEquipment
 ➡ Value
 ➡ Tradeltem
 ➡ Shipment
 ➡ Consignment
 ⋄ departureDate
 ⋄ serviceMode
 ⋄ transportEquipmentQuantity
 ▶ __ carrier (Consignment—Carrier)
 ▶ __ consignor (Consignment—Consignor)
 ▶ __ consignee (Consignment—Consignor)
 ▶ __ notifyParties (Consignment—Notify)
 ▶ __ freightPaver (Consignment—Freight

▶ ___ shipFromParty (Consignment—ShipFromPar

▶ __ shipToParty (Consignment—ShipToParty

otherParties (Consignment—OtherParty)

portOfLoading (Consignment—Location)

___ portOfDischarge (Consignment—Location)

☐ placeOfDelivery (Consignment—Location)

_____ mainCarriageTransportMovement (Consignment—T

__ onCarriageTransportMovement (Consignment—Tran

utilized Transport Faulament (Consignment Transport

___ charges (Consignment—Charges)

___ cargoInformation (Consignment—CargoInformation)

___ transportPackages (Consignment—TransportPacka

grossWeight (Consignment—Weight)

THANKYOU

Get involved on edi3.slack.com and github.com/edi3

Please refer to https://edi3.org/json-ld-ndr/ for more.

And don't hesitate to reach out to me on the edi3 slack or on:

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github.com/nissimsan/

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https://www.tradelens.com/