



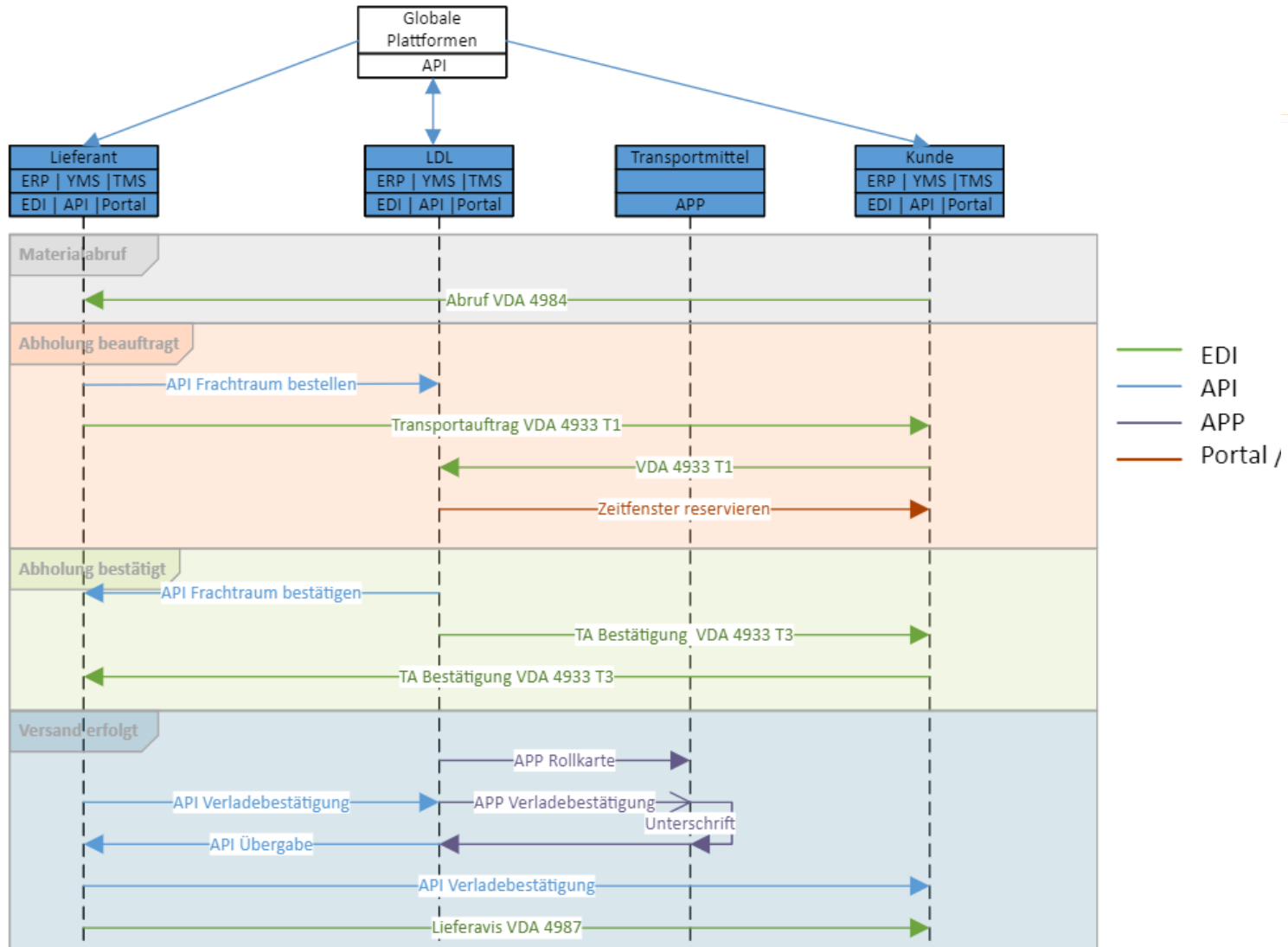
Odette Transport T & T API Project

Report to UN/CEFACT
Specifications Domain
37th Forum Meeting
12.10.2021



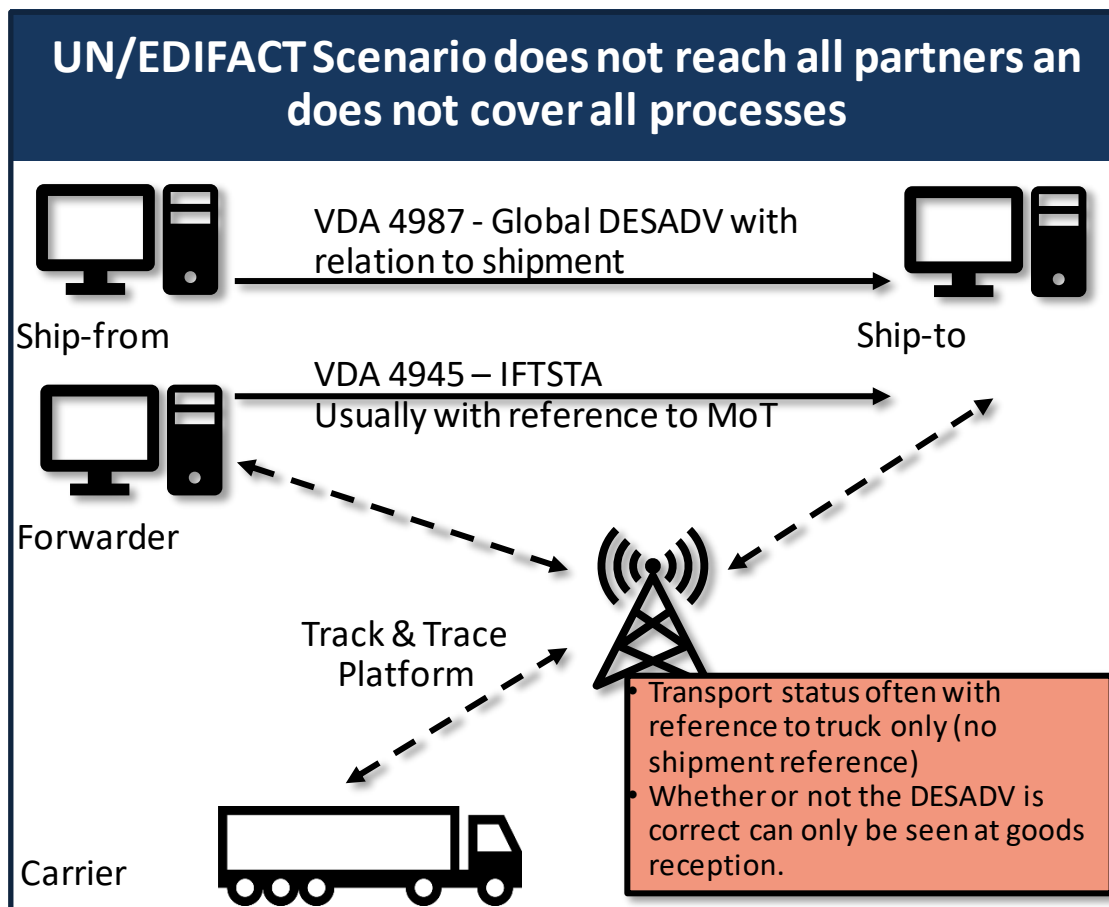
Business Case and Goals

- ❑ Our members require modern, lightweight communication to extend (fill gaps) in classic EDIFACT scenarios (not replace them)
- ❑ REST API were considered as the most suitable technology
- ❑ The deliverables should be based on international standards & best practices





Typical pain point






Step 1: specify an API toolbox




Description	<p>The required data structures are to be used and accepted internationally, therefore artefacts from the UN/CEFACT Reference Data Model are used.</p>	<p>Here, too, the drafts (WiP) of the UN/CEFACT experts were used as the basis for the recommendation. Future adjustments are possible.</p>	<p>From this, program codes can be generated automatically in various programming languages for implementation.</p>
Result	<p>There is a uniform framework for the specification of API regardless of the specific application area (logistics, finance, master data, etc.).</p> <p>The VDA/Odette recommendation uses international standards as far as possible.</p>		



Automotive Supply Chain REST API

VDA 4998 P1
Version 1.0, June 2021





Business Requirements Specification

Definition of 8 Use Cases

Use-Case	Loading confirmation
Proposed by	VDA PG API
Proposed on	16.10.2020
Description	The ship-from-party notifies, which shipment has been loaded on a particular means of transport.
Actors	Ship-from, LSP, optional: copy to ship-to / transport ordering party
Pre-condition	and transport means ID are known
Post-condition	
Functions	Create, Update, Read
Process	Sender: ship-from Receiver: API HUB Potential subscriber: ship-to, transport ordering party, transport service provider
Alternative	EDIFACT IFTSTA and / or DESADV
Motivation / Business Value	Automated, accelerated communication
Frequency	Event driven



Business Requirements Specification

Data requirement

Input Name		Description
Sender	1..1	Only in envelope
Receiver	1..1	Only in envelope
ID Transport Order	0..1	Order number
Ship-from ID	1..1	Unique (global) ID - e.g. DUNS or Odette
Ship-to ID	0..1	Unique (global) ID - e.g. DUNS or Odette
LSP-ID	1..1	Unique (global) ID - e.g. DUNS or Odette
Shipment ID	1..1	
TLU ID	0..n	ID of the loaded transport loading units
Number of TLU	1..1	
Transport means ID	1..1	Unique reference to the transport means
Date / time	1..1	Actual date/time of completion of loading



JSON Linked Data

□ What is the aim / focus?

- Export the RDM into a syntax so that other modelling tools can use it for API development?
OK, but we do not need this because we use the original data model in FX
- Use only links to associated components (e.g. Included Consignment Item) instead of their data? (distributed discoverable entities)
Might be difficult.