

# UN/CEFACT Project API TS

Web-Meeting 07.12.2021

# Agenda

- Summary of the discussion on 15<sup>th</sup> and 16<sup>th</sup> November 2021
- Organisation of project work
  - Team members
  - Editor
  - Meeting plan
- Milestones

# Approved Project

- **PROJECT PURPOSE**

- Multiple groups within UN/CEFACT wish to develop standard Application Programming Interfaces (APIs) as part of the set of technical deliverables from their project. The RDM2API project demonstrated that it is possible to go from the semantics of UN/CEFACT towards APIs. This project aims to develop a technical specification in order to move from Reference Data Model (RDM) based deliverables to a standardized API which retains the richness of information available in RDMs.

- **PROJECT SCOPE**

- Develop a technical specification which will standardize API production for UN/CEFACT RDM-based deliverables.

- **PROJECT DELIVERABLES**

- The project deliverables is: • Deliverable 1: Application Programming Interface Technical Speciation )API-TechSpec)

# Summary # 1

- **CONSENT AMONG THE GROUP:**

- It does not matter, what format is used to represent the RDM; it does matter that the result is predictable and reliable.
- Artefacts can be anything from a simple ABIE up to complete documents (e.g. eCMR or the like)
- We do not intend to produce JSON LD vocabularies in this project
- For restful API specification the OpenAPI 3.x format is the most suitable approach.

# Summary # 2

- **TO BE ADJUSTED AS FOLLOWS:**

- **STEP 1:**

- Define naming and design rules and reliable procedures to convert RDM artefacts into semantically compliant JSON structures.
- Verify these rules against use cases derived from UN/CEFACT Textile & Leather project, automotive use cases and Pref CoO use case.
- Time to completion: target should be 2 to 3 months.

- **STEP 2:**

- Describe the rules, how these data structures are to be used in the design of restful API following the OpenAPI 3.x specification.
- Again, verify against selected industry or administrative use cases.
- Time to completion: again 2 to 3 months max.

# Project Organisation

- Members – see next slide
- Editor team – Andreas, Gerhard, Rudy,
- Meeting plan
  - 21.12.2021, 10:00 CET
  - 11.01.2022, 11:00 CET
  - 25.01.2022, 10:00 CET
  - 08.02.2022, 10:00 CET
  - 22.02.2022, 10:00 CET

# Members

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# Tasks and Mile Stones

- Output: NDR and procedure from RDM to UN/JSON schema take into account XML production and OASIS example (tools agnostic) but for proof of concept and speed an existing tool should be used
- Proof: Generated JSON schemas to be used in API
- Development rules for REST API based on the work done by Steve's team
- Pilot use cases apply the rules