

Canonical Model

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Project Details

Domain	International Supply Chain Orchestration Domain
Project Identifier	P1052
Bureau Decision #	#1709031
Project Proposal Status	Official
Project Page	Canonical Model
Supporting VC	Ian Watt
Project Lead	Steven Capell
HoD Support	N/A
Status	Completed
Version	2.0
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Draft Development Completion	2018-02-01
Publication Date	2018-05-01

Project purpose

The project's purpose is to address the now globally recognised importance of the role of canonical process and data models in facilitating trade. Given UN/CEFACT's current global recognition as a proven and effective standards developer, the development of such a canonical mode is considered to be UN/CEFACT's number one opportunity.

The project will draw on UN/CEFACT's sound foundations and current progress to date in the development of such a canonical model and proceed to develop guidelines to assist all working groups engaged in the development of UN/CEFACT standards and recommendations to contribute effectively to the delivery of the required canonical model.



What does "canonical" mean?

(adj.) Authoritative or standard: conforming to an accepted rule or procedure. When referring to programming, canonical means conforming to well-established patterns or rules. The term is typically used to describe whether or not a programming interface follows the already established standard.

The opportunity & the driving forces

UN/CEFACT is poised to significantly contribute to:

- Blockchain enabled "Trust" applied to the supply chain
- Internet enabled "Collaboration" applied to the supply chain "Data Pipeline"
- The uptake of process driven as distinct to document driven supply chains as required to gain benefit from blockchain and IoT technologies, and in support of "Event Driven Architectures" based services
- Deployment of UN/CEFACT's Reference Data Model approach

To deliver UN/CEFACT must now focus on processes and choreography moving beyond primarily focussing only on message definition.

Project scope

The project will examine all current UN/CEFACT deliverables covering BRS; RSM; ISCRM; CCL: SCRDM & MMT-RDM; MA & schema.

Based on the existing UMM (2003) and CCTS (2003) both designed to ensure that UN/CEFACT works to the delivery of the required canonical model, and in considering newer technologies, an analysis will be conducted to determine the extent to which modernization may be required of the base UN/CEFACT instruments and methods. Preliminary assessment and experience dating back to 2002 indicates that to original developers of the UN/CEFACT instruments UMM & CCTS held great insight into the directions of future technologies including blockchain and sensor technology.

The project will assess any identifiable gap in existing instruments, tools and methods, make recommendations as to how to address, and then to develop guidelines to ensure that the opportunity to use to greater purpose in particular UMM and related artifacts is addressing the global move to Event Driven Architectures applied to software based business solutions. This project may result in subsequent projects where technical specifications may need to be updated to the latest technologies.

Project Deliverables

The project deliverables are:

- Gap analysis and recommendations with respect to any 'modernization' required of existing instruments, methods or deliverables.
- Report on the current and proposed use of tools, both commercial and bespoke as deployed in the work of developing UN/CEFACT recommendations and standards
- Development of Guidelines for extended/deeper use of UMM, CCTS and resultant BRS, RSM, ISCRM, SCRDM, MMT-RDM, CCL, schema
- Executive guide material suited to communication of the UN/CEFACT capability in standards development

Exit Criteria

The exit criteria will be:

- Gap analysis and recommendations with respect to any 'modernization' required of existing instruments, methods or deliverables.
 - Analysis and recommendations presented to the Bureau for Project Exit
- Report on the current and proposed use of tools, both commercial and bespoke as deployed in the work of developing UN/CEFACT recommendations and standards
 - Report presented to the Bureau for Project Exit
- Development of Guidelines for extended/deeper use of UMM, CCTS and resultant BRS, RSM, ISCRM, SCRDM, MMT-RDM, CCL, schema
 - Guideline presented to the Bureau and intended to be circulated to all Domains and eventually published on the website for future usage guidance.
- Executive guide material suited to communication of the UN/CEFACT capability in standards development
 - Guide presented to the Bureau and intended to be presented to the Plenary for information and published on the website.

Project Team Membership and Required Functional Expertise

The project team is open to experts with broad knowledge and experience in the area of supply chain and related activities as well as in modelling techniques.

In addition, Heads of Delegations may invite technical experts from their constituency to participate in the work. Experts are expected to contribute to the work based solely on their expertise and to comply with the UN/CEFACT Code of Conduct and Ethics.

Head of Delegation Support

HoD support not required for internal / communication deliverables.

Geographical Focus

The geographical focus is global.

Initial Contributions

- UN/CEFACT Modelling Methodology (CEFACT/TMG/N093)
- UN/CEFACT ebXML Core Components Technical Specification Version 2.01
- UN/EDIFACT Data element directory D.16A
- BRS and RSM Templates

Resource Requirements

No additional secretariat resources will required.

Project Leadership

Proposed Project Leader: [Jonathan Tat Tsen KOH](#)

Project Proposal Files

File	Modified
PDF File 170724-3d Canonical Models Project v2.pdf	Mar 28, 2018 by Malik

