

A faint, light gray world map is visible in the background, centered on the Atlantic Ocean. The map shows the continents of North and South America, Europe, and Africa.

WISHI: Describing IoT (data) Standards “Nutritional Label” Update 4

Milan Milenkovic
milan@iotsense.com
May 19, 2022

Quick Update

- V2 of the paper posted on wishi github (IETF format)
 - Major revisions and updates, same basic idea
 - “nutritional label” in title
- Decisions
 - Header says T2TRG draft doc (wishy?)
 - If and when to publish as IETF info draft?
- Call to action
 - Provide feedback – at least on questions, easy read (p11-16)
 - Contributions are solicited (co-authors, acknowledgments)

Next Steps

- Elicit and incorporate group feedback
 - You, yes, you ;-)
- Precedents
 - Paper and project “Datasheets for datasets” common description
 - Published as “let’s do this” on arXiv 3/2018, final result in CACM 12/2021
 - Also on arXiv “The dataset nutrition label”
- Action Plan
 - Revise based on wishi feedback and make available
 - IETF, arXiv (duplication helps or hurts?)
 - GitHub?
- Plans – start an IoT crowd-sourcing movement (on GitHub?)
 - For group consensus positions, reference architectures

Status update

- Second draft written and posted on wishi Github as v02
- Draft content, sections
 - Intro and overview of IoT info/data models principles and practices
 - Suggested list of items for SDO descriptions to address for commonality
 - Objectives and purpose
 - Domain of usage – initial and future targets
 - Environmental assumptions – what needs to be in place for this to work
 - Terminology
 - Would be nice to know (adopters)
 - Metadata handling
 - Creation of new object types
 - Development considerations
 - Tools, reference implementations
 - Licensing terms

Background - IoT Standards Description

- Create a T2TRG paper (draft) that describes key features of IoT data standards (info and meta models) in a consistent manner
 - For better landscape understanding and comparisons, selections
 - High-level, common format description of purpose, scope, and approach
 - (MM) To be usable by researchers and IoT practitioners – selection and use
 - Not (just) SDO wonks and insiders
 - NOT details of the inner workings (spec rehash)
 - NOT a judgement – just state their choices explicitly
- ...Think T2TRG “IoT info standards labeling guide” – like FDA and EU food/nutrition labels