MoU/MG "ISO-IEC-ITU-UNECE Memorandum of Understanding on e-Business Management Group"
Secretariat: **ISO**
Secretary: **Euchner Martin Mr**

Semantic Interoperability and its role for e-Business - Draft concept note

Document type	Related content	Document date	Expected action
Meeting / Other	Meeting: Geneva (Switzerland) 17 Jan 2023	2023-01-10	**INFO**

Semantic Interoperability and its role for e-Business

Draft concept note

Background: *eBusiness Memorandum of Understanding Management Group*

The Memorandum of Understanding on electronic business (MoU) between IEC, ISO, ITU, and UN/ECE and its Management Group (MG) is a coordination mechanism under a unique cooperative model to collaborate on mutually supportive standards required in business transactions (data interchange and interoperability) as well as products design and manufacturing to meet the urgent needs of both the industry and the end-users.

*The **eBusiness Memorandum of Understanding Management Group** between ISO, IEC, ITU and UNECE is planning to host an online webinar on semantic interoperability and its role in e-Business. This will be followed up later by a workshop to discuss further the needs and approaches to consider for industry*

Alongside recent breakthroughs, new partnerships are also supporting growing confidence in AI, Smart Connectivity, and Semantic Interoperability. The advancement of technology in a hyper-connected world presents novel challenges that require coordinated global responses. Standards developed by international standards bodies create a common way of governing socio-technical issues and provide the basis to address further policy objectives and sensible development across the world. Though standards alone will not achieve policy goals and chart effective global solutions. Inclusive dialogue helps all stakeholders to build an understanding of their respective roles in fostering new development, new partnerships, and new knowledge sharing.

Agreements on the meaning of data are essential. The underlining technology (or standard) enables

machines to "understand", share and reason with data in order to create more value for us, humans. Semantic Interoperability will use formal semantics to give meaning to the disparate data that surrounds us. Together with Linked Data technology. Semantic and semantic interoperability helps us discover smarter data, infer relationships and extract knowledge from enormous sets of raw data in various formats and from various sources.

The webinar will cover GENERIC ASPECTS OF SEMANTIC INTEROPERABILITY (WHAT IS IT, WHY IT IS NEEDED, AND WHERE IT IS APPLIED)

The 3 hour webinar plans to cover principle theories and high-level application descriptions of semantic interoperability. What occurs today and why is it even more important in the future.

Concepts such as defining and managing a semantic domain; and how semantic interoperability occurs between domains? Addressing challenges and risk. Furthermore, addressing key questions for example, when you cross out of a domain how does the interoperability work, and when stepping out of a domain how is semantics interoperability ensured?

- **Semantics and semantic Interoperability: An introduction**
    - o *High-level generic explanation*
    - o *Specific description in the domain of electronic business*
    - o *Specific area of electronic business*

A FOLLOW UP WORKSHOP IS THEN PLANNED 2 MONTHS LATER TO COVER ACTIVITIES IN RELATED DOMAINS
- **What is being done by other domains with semantics**
- **Lessons learnt, and future steps to ensure interoperability**
- **Needs of industry/domains, potential barriers**

Call for presentations:
This document is presented on the intention of the organisers for the webinar on Semantic Interoperability with a focus on Electronic Business. If you or your committee are working in these areas then please feel free to propose a short presentation in one of the areas proposed.

Presentation/proposal guidance / possible speakers:
Presentations should be no longer than 15 minutes with the addition of 5 minutes of questions.

Format of the webinar:
The meeting will be held virtually. All interested participants, delegates and stakeholders are invited to join. (All persons will be required to register for the online event and will receive a unique registration link.)

Date/time
Program Date/Time:
- *Webinar early March 2023, 13:00 - 16:00 (Geneva) – Online Only (TBC)*
- *Follow on workshop early May 2023, 13:00 - 16:00 (Geneva) – Online Only (TBC)*