



MoU/MG "ISO-IEC-ITU-UNECE Memorandum of Understanding on e-Business Management Group"

Secretariat: **ISO**

Secretary: **Euchner Martin Mr**



Smart Manufacturing in ISO

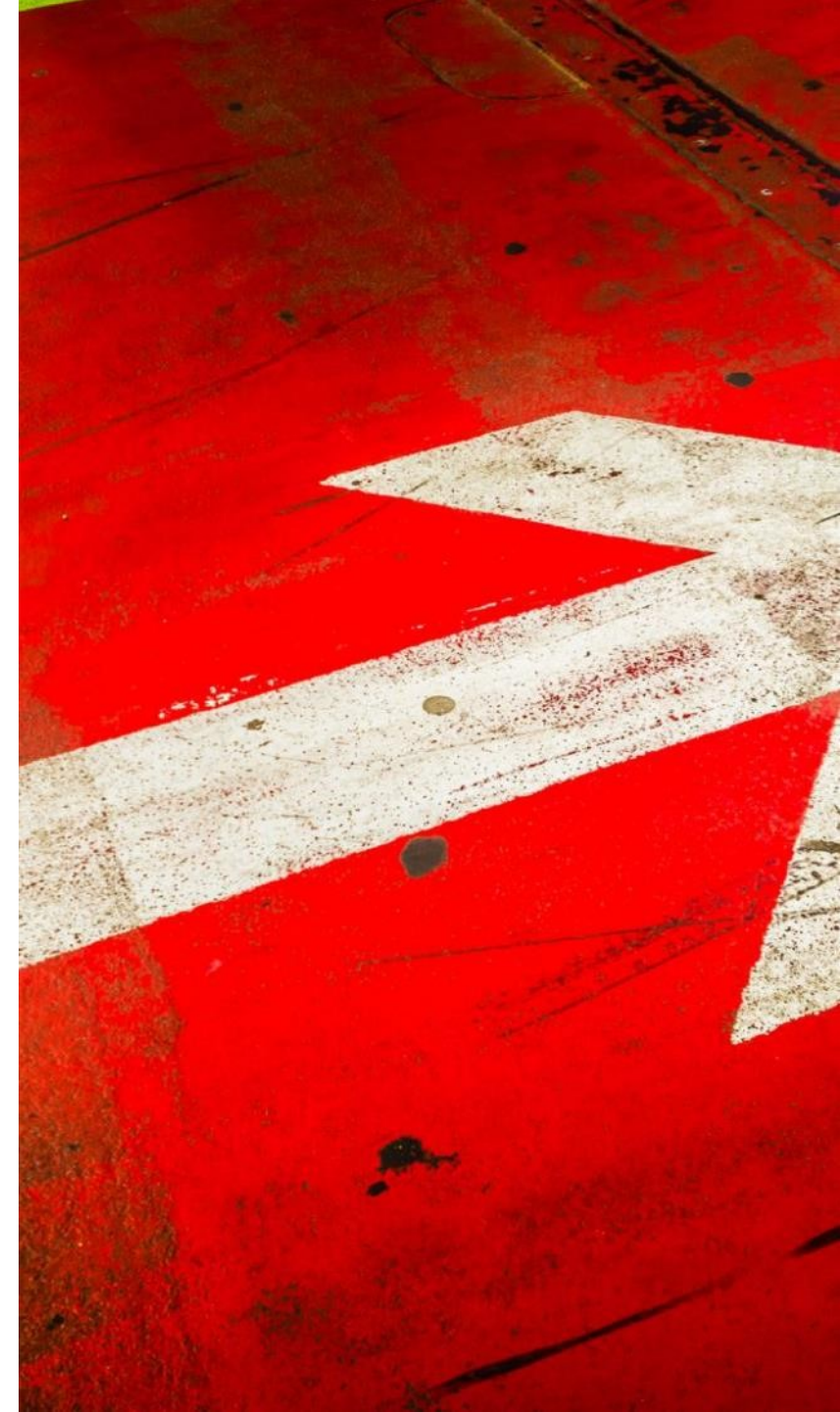
Document type	Related content	Document date	Expected action
Meeting / Other	Meeting: Geneva (Switzerland) 17 Jan 2023	2023-01-11	INFO

Smart manufacturing in ISO

Smart Manufacturing Coordinating Committee

Chair: Christoph Preusse (Germany)

Secretariat: Laura Mathew (ISO/CS)



Background

TMB Resolution 105/2016

Outcome of ISO Strategic Advisory Group on Industry 4.0/Smart Manufacturing

TMB Resolution 23/2021

Updated the Terms of Reference:

- Coordination across ISO committees:
 - Information sharing, communication and coordination among ISO committees involved in standardization related to Smart Manufacturing and encouraging joint development activities where appropriate.
 - Understanding market needs, describing a vision, developing a roadmap to identify opportunities for new standardization work, and defining goals.
 - Developing relevant materials, including use cases, for use by committees involved in standardization related to Smart Manufacturing.
- Coordination with other organizations:
 - Acting as ISO's focal point when working with the IEC on this topic;
 - Serving as a support to ISO/CS for interfacing with other recognized organizations working in the area of Smart Manufacturing to showcase the work of ISO.
- Maintaining and updating the directory of applicable standards driven by the Smart Manufacturing Standards Mapping Task Force (SM2TF), jointly with IEC.
- Advisory functions to ISO/CS
 - Making recommendations to the TMB regarding standardization of Smart Manufacturing

Meetings

2019 - Seattle, USA

2020 - Virtual

2021 - Virtual

2022 - Santa Clara, USA

(plus joint meeting with IEC SyC SM during the IEC General Meeting in San Francisco)

November 2022 - key points

- Continued promotion of the [SMCC White Paper](#) among the ISO technical community and beyond

- Progress on the mandate of the Smart Manufacturing Standards Map Task Force

ISO/IEC 63306, *Smart manufacturing standards map*

2-part dual logo TR describing the framework and full catalogue of SM standards



November 2022 - key points

ISO/TC 184 - IEC/TC 65 JWG 21

IEC TR 63319, Meta-modelling analysis approach to smart manufacturing reference models

Objective is to review the current status of SM reference models and propose a meta-model to describe SM reference models.
(To be published 2023-03)

IEC 63339, Unified reference model for smart manufacturing

Requirement and specification of a smart manufacturing reference model
(To be published 2023-12)

November 2022 - key points

- Focus on how smart manufacturing contributes to sustainability, e.g. efficient processes saving on waste and energy, leveraging IT systems to make savings elsewhere.
- Task group set up to consult relevant committees on how they are considering sustainability in their work, demonstrate how smart manufacturing standards support the UN SDGs, emphasize the link between smart manufacturing and sustainability through communications channels.

SMCC/SyC SM Workshop

Workshop led by the two Chairs.

Small mixed groups addressed 4 topics:

- Improving coordination between the two groups
- Identifying key topics for collaboration in SM
- SM standardization opportunities that are not currently covered in ISO or IEC
- Areas where collaboration is needed with organizations other than ISO, IEC, ITU



Thank you.

Working together to make lives
easier, safer, better.

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