ISO/IEC JTC 1/SC 24

Computer graphics, image processing and environmental data representation

Secretariat: BSI (United Kingdom)

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Email of secretary:	charles.whitlock@bsigroup.com
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Form 4: New Work Item Proposal

Circulation date: 2018-04-13 Closing date for voting: 2018-07-07	Reference number: ISO/IEC NP 23490 (to be given by Central Secretariat) ISO/IEC JTC 1/SC 24
Proposer (e.g. ISO member body or A liaison organization) ISO/IEC JTC 1/SC 24	N 4068
Secretariat BSI	

A proposal for a new work item within the scope of an existing committee shall be submitted to the secretariat of that committee with a copy to the Central Secretariat and, in the case of a subcommittee, a copy to the secretariat of the parent technical committee. Proposals not within the scope of an existing committee shall be submitted to the secretariat of the ISO Technical Management Board.

The proposer of a new work item may be a member body of ISO, the secretariat itself, another technical committee or subcommittee, an organization in liaison, the Technical Management Board or one of the advisory groups, or the Secretary-General.

The proposal will be circulated to the P-members of the technical committee or subcommittee for voting, and to the O-members for information.

☒   The proposer has considered the guidance given in the Annex C during the preparation of the NWIP.

Proposal (to be completed by the proposer)

Title of the proposed deliverable.

English title:

Information technology -- Computer graphics, image processing and environmental data representation -- Information Model for Live Actor and Entity in Mixed Augmented Reality

French title:

Technologies de l'information -- Infographie, traitement d'images et représentation des données environnementales -- Modèle d'information pour l'acteur en direct et l'entité en réalité augmentée mixte

(In the case of an amendment, revision or a new part of an existing document, show the reference number and current title)

Scope of the proposed deliverable.

The standard on live actor and entity representation in mixed and augmented reality (LAE-MAR), defines a reference model and base components for representing and controlling a single LAE or multiple LAEs in a MAR world.
This proposal consider an information model for live actor and entity contents among LAE-MAR systems or applications.

Purpose and justification of the proposal*

An information model that supports a live actor and entity in mixed and augmented reality is covering all necessary informational components and extended attribute/value sets for: Moreover, It provides the capability of controlling and managing a LAE or multiple LAEs to perform any activities in MAR world. The information model for LAE in MAR provides the follows:
-

 Mix and matching for expressional richness

 Compatibility and extendibility to existing constructs for VR and other mark-up documents

 Standardization for a file format of LAE in a LAE-MAR system

 Standardization for streaming or transmitting LAE among LAE-MAR systems.

Consider the following: Is there a verified market need for the proposal? What problem does this standard solve? What value will the document bring to end-users? See Annex C of the ISO/IEC Directives part 1 for more information. See the following guidance on justification statements on ISO Connect:
https://connect.iso.org/pages/viewpage.action?pageId=27590861

Preparatory work   (at a minimum an outline should be included with the proposal)

☒ A draft is attached   ☐ An outline is attached   ☐ An existing document to serve
                                                                                                as initial basis

The proposer or the proposer's organization is prepared to undertake the preparatory work required:

☒ Yes   ☐ No

If a draft is attached to this proposal:

Please select from one of the following options (note that if no option is selected, the default will be the first option):

☒ Draft document will be registered as new project in the committee's work programme (stage 20.00)

☐ Draft document can be registered as a Working Draft (WD – stage 20.20)

☐ Draft document can be registered as a Committee Draft (CD – stage 30.00)

☐ Draft document can be registered as a Draft International Standard (DIS – stage 40.00)

If the attached document is copyrighted or includes copyrighted content:

☒ The proposer confirms that appropriate permissions have been granted in writing for ISO or IEC to use that copyrighted content.

Is this a Management Systems Standard (MSS)?

☐ Yes   ☒ No

NOTE: if Yes, the NWIP along with the Justification study (see Annex SL of the Consolidated ISO Supplement) must be sent to the MSS Task Force secretariat (tmb@iso.org) for approval before the NWIP ballot can be launched.

Indication(s) of the preferred type to be produced under the proposal.

☒ International Standard   ☐ Technical Specification

☐ Publicly Available Specification   ☐ Technical Report

Proposed development track

☐ 18 months*   ☒ 24 months   ☐ 36 months   ☐ 48 months

Note: Good project management is essential to meeting deadlines. A committee may be granted only one extension of up to 9 months for the total project duration (to be approved by the ISO/TMB).

*DIS ballot must be successfully completed within 13 months of the project's registration in order to be elligible for the direct publication process

Draft project plan (as discussed with committee leadership)

Proposed date for first meeting: 2018-05-29

Dates for key milestones: DIS submission   2019-12-18

                                    Publication   2020-12-22

Known patented items (see ISO/IEC Directives, Part 1 for important guidance)

☐ Yes   ☒ No

If "Yes", provide full information as annex

Co-ordination of work: To the best of your knowledge, has this or a similar proposal been submitted to another standards development organization?

☐ Yes   ☒ No

If "Yes", please specify which one(s):

A statement from the proposer as to how the proposed work may relate to or impact on existing work, especially existing ISO and IEC deliverables.
The proposer should explain how the work differs from apparently similar work, or explain how duplication and conflict will be minimized.

The proposed standard is based on the live actor and entity representation in mixed and augmented

A statement from the proposer as to how the proposed work may relate to or impact on existing work, especially existing ISO and IEC deliverables.

The proposer should explain how the work differs from apparently similar work, or explain how duplication and conflict will be minimized.

reality (18040) that defines a reference model and base components for representing and controlling a single LAE or multiple LAEs in a MAR world. The proposed standard can be one important component in another work item, Information model for MAR contents (21858), whose purpose is to lay out and specify the information model for various essential MAR content components and their relationships. While 21858 lays the foundation and overall framework, it does not go into all the details, e.g. live actor and entity information model. This work will deal with an information model for live actor and entity contents among LAE-MAR systems or applications

A listing of relevant existing documents at the international, regional and national levels.

ISO 18039 MAR Reference model
ISO 18040 Live Actor and Entity Representation in Mixed and Augmented Reality
ISO 21858 Information model for MAR Contents

Please fill out the relevant parts of the table below to identify relevant affected stakeholder categories and how they will each benefit from or be impacted by the proposed deliverable(s).

	Benefits/impacts	Examples of organizations / companies to be contacted
Industry and commerce large industry	Virtual Education System, Virtual Teleconference System, Virtual History Documentary System	Broadcast Company, Game Company,
Industry and commerce SMEs	Standard live actor and entity representation of a human being in virtual education system	KIS, Inc.
Government		
Consumers		
Labour		
Academic and research bodies		
Standards application businesses		
Non-governmental organizations		
Other (please specify)		

Liaisons:	Joint/parallel work:
A listing of relevant external international organizations or internal parties (other ISO and/or IEC committees) to be engaged as liaisons in the development of the deliverable(s). Web3D Consortium	Possible joint/parallel work with: ☐ IEC (please specify committee ID) ☐ CEN (please specify committee ID) ☐ Other (please specify)

A listing of relevant countries which are not already P-members of the committee.
Note: The committee secretary shall distribute this NWIP to the countries listed above to see if they wish to participate in this work

Proposed Project Leader (name and e-mail address)	Name of the Proposer (include contact information)
Kwan-Hee Yoo khyoo@chungbuk.ac.kr	Kwan-Hee Yoo khyoo@chungbuk.ac.kr

This proposal will be developed by:

☒ An existing Working Group: ISO/IEC JTC 1/SC 24/WG 9

☐ A new Working Group:

(Note: establishment of a new WG must be approved by committee resolution)

☐ The TC/SC directly

☐ To be determined:

Supplementary information relating to the proposal

☒ This proposal relates to a new ISO document

☐ This proposal relates to the adoption as an active project of an item currently registered as a Preliminary Work Item

☐ This proposal relates to the re-establishment of a cancelled project as an active project

Other:

Maintenance agencies and registration authorities

☒ This proposal requires the service of a maintenance agency. If yes, please identify the potential candidate:

ISO/IEC JTC1/SC24

☐ This proposal requires the service of a registration authority. If yes, please identify the potential candidate:

NOTE: Selection and appointment of the MA or RA is subject to the procedure outlined in the ISO/IEC Directives, Annex G and Annex H, and the RA policy in the ISO Supplement, Annex SN.

☐ Annex(es) are included with this proposal (give details)

Additional information/question(s)