Form 4:

New Work Item Proposal (NP)

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| **Circulation date**  Click here to enter a date.  **Closing date for voting**  Click here to enter a date. | **Reference number:** Enter Number  (to be given by ISO Central Secretariat)  **ISO/TC** JTC1 **/SC** 24  Proposal for a new PC  **N** Click here to enter text. |
| **Proposer**  ISO member body:  Click here to enter text.  Committee, liaison or other¹:  Web3D Consortium |
| **Secretariat**  Click here to enter text. |

A proposal for a new work item within the scope of an existing committee shall be submitted to the secretariat of that committee.

¹ 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. See ISO/IEC Directives Part 1, [Clause 2.3.2](https://www.iso.org/sites/directives/current/part1/index.xhtml#_idTextAnchor138).

The proposer(s) of the new work item proposal shall:

* make every effort to provide a first working draft for discussion, or at least an outline of a working draft;
* nominate a project leader;
* discuss the proposal with the committee leadership prior to submitting the appropriate form, to decide on an appropriate development track (based on market needs) and draft a project plan including key milestones and the proposed date of the first meeting.

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

**IMPORTANT NOTE**

**Proposals without adequate justification risk rejection or referral to originator.**

Guidelines for proposing and justifying a new work item are contained [in Annex C of the ISO/IEC Directives, Part 1.](https://www.iso.org/sites/directives/current/part1/index.xhtml" \l "_idTextAnchor310)

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

Resource availability:

There are resources available to allow the development of the project to start immediately after project approval\* (i.e. project leader, related WG or committee work programme).

\* if not, it is recommended that the project be first registered as a preliminary work item (a Form 4 is not required for this) and, when the development can start, Form 4 should be completed to initiate the NP ballot.

**Proposal** (to be completed by the proposer, following discussion with the committee leadership)

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| **Title of the proposed deliverable**  **English title**  ISO/IEC 19775-1 Extendable 3D (X3D) Part 1 – Architecture and Base Components  **French title (if available)**  *ISO/IEC 19775-1* *Partie 1: Architecture et composants de base*  *(In the case of an amendment, revision or a new part of an existing document, include the reference number and current title)* | | | |
| **Scope of the proposed deliverable**  This version of X3D is a revision of ISO/IEC 19775-1:2013 and refines and augments the current functionality while retaining maximum backwards compatibility | | | |
| **Purpose and justification of the proposal**  This project will update ISO/IEC 19775-1 with new technology developed since 2013 and refines the current functionality for greater efficiency while retaining backwards compatibility.  ***Consider the following:***  *Is there a verified market need for the proposal?*  *What problem does this document solve?*  *What value will the document bring to end-users?*  *See* [*Annex C*](https://www.iso.org/sites/directives/current/part1/index.xhtml#_idTextAnchor310) *of the ISO/IEC Directives, Part 1 for more information.*  *See the following guidance on justification statements in the brochure ‘Guidance on New work’:* <https://www.iso.org/publication/PUB100438.html> | | | |
| **Please select any UN Sustainable Development Goals (SDGs) that this document will support. For more information on SDGs, please visit our website at** [**www.iso.org/SDGs**](http://www.iso.org/SDGs)**."**  **GOAL 1:** No Poverty  **GOAL 2:** Zero Hunger  **GOAL 3:** Good Health and Well-being  **GOAL 4:** Quality Education  **GOAL 5:** Gender Equality  **GOAL 6:** Clean Water and Sanitation  **GOAL 7:** Affordable and Clean Energy  **GOAL 8:** Decent Work and Economic Growth  **GOAL 9:** Industry, Innovation and Infrastructure  **GOAL 10:** Reduced Inequality  **GOAL 11:** Sustainable Cities and Communities  **GOAL 12:** Responsible Consumption and Production  **GOAL 13:** Climate Action  **GOAL 14:** Life Below Water  **GOAL 15:** Life on Land  **GOAL 16:** Peace and Justice Strong Institutions  N/A **GOAL 17:** Partnerships to achieve the Goal | | | |
| **Preparatory work**  (An outline should be included with the proposal)  A draft is attached  An outline is attached  An existing document will serve as the 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 can be registered at Working Draft stage (WD – stage 20.00)  Draft document can be registered at Committee Draft stage (CD – stage 30.00)  Draft document can be registered at Draft International Standard stage (DIS – stage 40.00)  If the attached document is copyrighted or includes copyrighted content, the proposer confirms that copyright permission has been granted for ISO to use this content in compliance with [clause 2.13](https://www.iso.org/sites/directives/current/part1/index.xhtml#_idTextAnchor205) of the ISO/IEC Directives, Part 1 (see also the [Declaration on copyright](https://www.iso.org/declaration-for-participants-in-iso-activities.html)). | | | |
| **Is this a Management Systems Standard (MSS)?**  Yes  No  **NOTE:** if Yes, the NP 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](mailto:tmb@iso.org)) for approval before the NP ballot can be launched. | | | |
| **Indication of the preferred type to be developed**  International Standard  Technical Specification  Publicly Available Specification | | | |
| **Proposed Standard Development Track (SDT)**  To be discussed between proposer and committee manager considering, for example, when the market (the users) needs the document to be available, the maturity of the subject etc.  18 months\*  24 months  36 months  \* Projects using SDT 18 are eligible for the ‘Direct publication process’ offered by ISO /CS which reduces publication processing time by approximately 1 month. | | | |
| **Draft project plan (as discussed with committee leadership)**  Proposed date for first meeting: Click here to enter a date.  Proposed dates for key milestones:  Circulation of 1st Working Draft (if any) to experts: Click here to enter a date.  Committee Draft ballot (if any): 2021-02-12  DIS submission\*: 2021-10-04  Publication\*: 2022-01-07  \* Target Dates for DIS submission and Publication should preferably be set a few weeks ahead of the limit dates (automatically given by the selected SDT).  For guidance and support on project management, descriptions of the key milestones and to help you define your project plan and select the appropriate development track, see: go.iso.org/projectmanagement  **NOTE:** The draft project plan is later used to create a detailed project plan, when the project is approved. | | | |
| **Known patented items (see ISO/IEC Directives, Part 1,** [**clause 2.14**](https://www.iso.org/sites/directives/current/part1/index.xhtml#_idTextAnchor207) **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):  Click here to enter text. | | | |
| **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**  There should be no impact on existing work. | | | |
| **A listing of relevant existing documents at the international, regional and national levels**  ISO/IEC 19775-1:2013 ISO/IEC 19775-2:2015  ISO/IEC 19776-1:2015  ISO/IEC 19776-2:2015  ISO/IEC 19776-3:2015  ISO/IEC 19777-1:2006  ISO/IEC 19777-2:2006 | | | |
| **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** | | | |
|  | **Benefits/impacts** | | **Examples of organizations/companies to be contacted** |
| **Industry and commerce – large industry** | Provides more modern access to 3D on the World Wide Web | | ISO TC 184 DICOM H7 Khronos W3C OGC |
| **Industry and commerce – SMEs** | Click here to enter text. | | Click here to enter text. |
| **Government** | Updates existing use of X3D | | U.S. Navy NATO  U.S. National Institutes of Health (NIH)  U.S. Department of Energy (DOE) |
| **Consumers** | Click here to enter text. | | Click here to enter text. |
| **Labour** | Click here to enter text. | | Click here to enter text. |
| **Academic and research bodies** | Provides more modern access to 3D on the World Wide Web | | Fraunhofer  ACM SIGGRAPH Various colleges and universities worldwide |
| **Standards application businesses** | Click here to enter text. | | Click here to enter text. |
| **Non-governmental organizations** | Click here to enter text. | | IEEE (3D Body Processing, 3DBP, file formats P3141) |
| **Other (please specify)** | Click here to enter text. | | Click here to enter text. |
| **Liaisons**  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.  ISO TC184 ISO/IEC JTC 1 | | **Joint/parallel work**  **Possible joint/parallel work with**  IEC (please specify committee ID)  Click here to enter text.  CEN (please specify committee ID)  Click here to enter text.  Other (please specify)  Click here to enter text. | |
| **A listing of relevant countries which are not already P-members of the committee**  Germany, France, Greece, Netherlands, Poland  **NOTE:** The committee manager shall distribute this NP to the ISO members of the countries listed above to ask if they wish to participate in this work | | | |
| **Proposed Project Leader**  (name and e-mail address)  Dr. Don Brutzman (brutzman@nps.edu) | | **Name of the Proposer**  (include contact information)  Dr. Nicholas Polys (npolys@vt.edu) | |
| **This proposal will be developed by**  An existing Working Group (please specify which one: ISO/IEC JTC 1/SC 24/WG 6)  A new Working Group (title: Click here to enter text.) (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:  This proposal is for a revision to ISO/IEC 19775-1:2013 | | | |
| **Maintenance agencies (MA) and registration authorities (RA)**  This proposal requires the service of a **maintenance agency**. If yes, please identify the potential candidate:    This proposal requires the service of a **registration authority**. If yes, please identify the potential candidate:  ISO Registry of Items  **NOTE:** Selection and appointment of the MA or RA is subject to the procedure outlined in the [ISO/IEC Directives](http://isotc.iso.org/livelink/livelink?func=ll&objId=4230452&objAction=browse&sort=subtype), Annex G and Annex H, and the RA policy in the ISO Supplement, Annex SN. | | | |
| Annex(es) are included with this proposal (provide details)  Click here to enter text. | | | |
| **Additional information/questions**  The following summarizes the major additions contained in this revision:   Support for HTTPS whenever HTTP is supported   Backward compatible with ISO/IEC 19775-1:2013   Support for external HTML5 media   External geometry similar in concept to images, video, and audio   Use current technology for spatialized audio   Accurate rendering of physical materials  Additional information on X3D implementations, supporting tools and documentation is available at <https://www.web3d.org/x3d4> | | | |