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**Email of Convenor:** young.L @ samsung . com

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**INTERNATIONAL ORGANIZATION FOR STANDARDIZATION**

**ORGANISATION INTERNATIONALE DE NORMALISATION**

**ISO/IEC JTC 1/SC 29/WG 03 MPEG SYSTEMS**

**ISO/IEC JTC 1/SC 29/WG 03 N0000**

**October 2021, Virtual**

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| **Source** | **WG 03, MPEG Systems** |
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Content identification is a fundamental component of any asset trade system. An asset identifier can be random so long as it can also be discovered by alternate IDs such as the International Standard Recording Code (ISRC) or the International Standard Work Code (ISWC). These alternate IDs enable two or more organizations to discover and share a common identifier for an asset.

ISO/IEC 21000-3:2003 Digital Item Identification (DII) specifies how Digital Items and parts, and collections thereof can be uniquely identified. Furthermore, DII provides a simple, extensible, and interoperable mechanism on how to integrate in asset trade systems not only existing but even future alternate identification schemes by facilitating the elements: (i) *Identifier*; and (ii) *RelatedIdentifier*.

Many identifiers have the form of a Uniform Resource Name (URN). Whilst many existing identification systems use their own URN namespace (e.g. the International Standard Book Number with *urn:isbn*), not all systems do so. To allow such systems to easily obtain URN conformant identifiers to be used within ISO/IEC 21000, a Registration Authority is needed.

A Registration Authority is set up for maintaining a list of identification schemes to be used within ISO/IEC 21000-3:2003. The Registration Authority for Digital Item Identification Systems uses the form *urn:mpegRA:mpeg21:dii:sss:nnn*, where the string *sss* denotes the Identifier for an Identification System and *nnn* denotes a unique identifier within that Identification System, e.g., *urn:mpegRA:mpeg21:dii:isrc:US-ZO3-99-32476.*

In the face of technology progress new types of content identifiers have been proposed, e.g., [International Standard Content Code](https://iscc.codes/) (ISCC) which are **auto-generated identifiers** created algorithmically from the content itself and [Non-Fungible Tokens](https://ethereum.org/en/developers/docs/standards/tokens/erc-721/) (NFTs) which can be sold and traded while stored on digital ledgers. Such alternate identification schemes can also be facilitated by ISO/IEC 21000-3:2003 Digital Item Identification (DII) thanks to its Registration Authority.

**Request for Candidates for the Registration Authority for ISO/IEC 21000-3**

ISO/IEC JTC1/SC29/WG03 MPEG Systems has developed a specification for uniquely identifying Digital Items. This specification ISO/IEC 21000-3 requires a new registration authority.

This document sets out the requirements for such a registration authority and asks parties who are interested in becoming a registration authority for ISO/IEC 21000-3 to contact:

Insert contact person details

Name and Address

by Date/Month/Year.

More information about Registration Authorities can be found in [Annex H of the ISO/IEC Directives Part 1](https://www.iso.org/sites/directives/current/consolidated/index.xhtml#_idTextAnchor416), and the ‘ISO RA Policy’, [Annex SN of the ISO Supplement](https://www.iso.org/sites/directives/current/consolidated/index.xhtml#_idTextAnchor619). These documents can also be found at <https://www.iso.org/maintenance_agencies.html>.

# Identifications Systems to be registered for use within MPEG-21 Framework

ISO/IEC 21000-3 defines that Digital Items and their components (including media resources) are identified by using Uniform Resource Identifiers (URIs).

Many identifiers will have the form of a URN. While many existing identification systems use their own URN namespace (e.g. the International Standard Book Number with urn:isbn), not all system do so. To allow such systems to easily obtain URN conformant identifiers to be used within the MPEG-21 Multimedia Framework, a Registration Authority is needed.

The Registration Authority will, under its own URN namespace, be able to register identification schemes. This helps users of the MPEG-21 Multimedia Framework to identify different Identification Schemes for use within the MPEG-21 Multimedia Framework.

# Procedure for Requesting a Digital Item Identification System Identifier for use within MPEG-21 Framework

To use a Digital Item Identification Systems, the provider of the identifier may apply to the Registration Authority. Registration forms shall be available from the Registration Authority.

The requester shall provide the registration information specified below. Companies and organisations are eligible to apply.

# Responsibilities of the Registration Authority

The primary responsibilities of the Registration Authority administrating the registration of Digital Item Identification Systems are outlined in this document; certain other responsibilities may be found in the JTC 1 Directives. The Registration Authority shall:

1. Obtain at least one URN namespace to be used as a prefix for URN-formed identifiers to be used in accordance with MPEG-21 DII. If the RA already has its own namespace, the Registration Authority may either use the existing namespace or register a new one.
2. Implement a registration procedure for application for a Digital Item Identification Systems in accordance with the JTC 1 Directives.
3. Receive and process the applications for allocation of a Digital Item Identification System from application providers.
4. Ascertain which applications received are in accordance with this registration procedure, and to inform the requester within 30 days of receipt of the application of their assigned Digital Item Identification Systems.
5. Inform application providers whose request is denied in writing with 30 days of receipt of the application, and to consider resubmissions of the application in a timely manner.
6. Maintain an accurate register of the allocated Digital Item Identification System. Revisions to format specifications shall be accepted and maintained by the Registration Authority.
7. Make the contents of this register available upon request to National Bodies of JTC 1 that are members of ISO or IEC, to liaison organizations of ISO or IEC and to any interested party.
8. Maintain a database of Digital Item Identification Systems request forms, granted and denied. Parties seeking technical information on the format of private data which has a Identification System within MPEG-21 Framework shall have access to such information which is part of the data base maintained by the Registration Authority.
9. Report its activities annually to JTC 1, the ITTF, and the SC 29 Secretariat, or their respective designees.
10. Accommodate the use of existing Digital Item Identification Systems whenever possible.

# Responsibilities of Parties Requesting a Digital Item Identification System to be included into the maintained list of identification schemes

The party requesting a Digital Item Identification System shall:

1. Apply using the Form and procedures supplied by the Registration Authority.
2. Include a description of the purpose of the Digital Item Identification Systems, and the required technical details as specified in the application form.
3. Provide contact information describing how a complete description can be obtained on a non-discriminatory basis.
4. Agree to institute the intended use of the granted Digital Item Identification Systems within a reasonable time frame.
5. To maintain a permanent record of the application form and the notification received from the Registration Authority of a granted Identification System within MPEG-21 Framework.

# Appeal Procedure for Denied Applications

The Registration Management Group is formed to have jurisdiction over appeals to denied request for a Digital Item Identification System. The RMG shall have a membership who is nominated by P- and L-members of the ISO technical committee responsible for ISO/IEC 21000. It shall have a convener and secretariat nominated from its members. The Registration Authority is entitled to nominate one non-voting observing member.

The responsibilities of the RMG shall be:

1. To review and act on all appeals within a reasonable time frame.
2. To inform, in writing, organizations which make an appeal for reconsideration of its petition of the RMGs disposition of the matter.
3. To review the annual report of the Registration Authorities summary of activities.
4. To supply Member Bodies of ISO and National Committees of IEC with information concerning the scope of operation of the Registration Authority.

# Registration Application Form

## Contact Information of organization requesting a Digital Item Identification System to be included into the maintained list of identification schemes

Organisation Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Telephone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fax: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

E-mail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Telex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Request for a specific Digital Item Identification System to be included into the maintained list of identification schemes

Short description of Digital Item Identification System that is in use and date system was implemented

Statement of an intention to apply the assigned Digital Item Identification System to be included into the list of identification schemes

Date of intended implementation of the Digital Item Identification System to be included into the list of identification schemes

## Authorised representative

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_