Copyright © 2024, CAST Software Copyright © 2024, Linux Foundation and its Contributors Copyright © 2024, The MITRE Corporation Copyright © 2024, OMG This work is licensed under the Community Specification License 1.0 (Community-Spec-1.0). Pre-existing portions of this work from copyright holders who have not subsequently contributed under the Community-Spec-1.0 are provided under Creative Commons Attribution License 3.0 Unported (CC-BY-3.0). Copies of these licenses are reproduced in their entirety herein as Annex G and H.

USE OF SPECIFICATION - TERMS, CONDITIONS & NOTICES

The material in this document details an Object Management Group specification in accordance with the terms, conditions and notices set forth below. This document does not represent a commitment to implement any portion of this specification in any company's products. The information contained in this document is subject to change without notice.

LICENSES

The companies listed above have granted to the Object Management Group, Inc. (OMG) a nonexclusive, royalty-free, paid up, worldwide license to copy and distribute this document and to modify this document and distribute copies of the modified version. Each of the copyright holders listed above has agreed that no person shall be deemed to have infringed the copyright in the included material of any such copyright holder by reason of having used the specification set forth herein or having conformed any computer software to the specification.

Subject to all of the terms and conditions below, the owners of the copyright in this specification hereby grant you a fully-paid up, non-exclusive, nontransforable, perpetual, worldwide license (without the right to sublicense), to use this specification to create and distribute software and special purpose specifications that are based upon this specification, and to use, copy, and distribute this specification as provided under the Copyright Act; provided that: (1) both the copyright notice identified above and this permission notice appear on any copies of this specification; (2) the use of the specifications is for informational purposes and will not be copied or posted on any network computer or broadcast in any nedia and will not be otherwise resold or transferred for commercial purposes; and (3) no modifications are made to this specification. This limited permission automatically terminates without notice if you breach any of these terms or conditions. Upon termination, you will destroy immediately any copies of the specifications in your possession or control.

PATENTS

The attention of adopters is directed to the possibility that compliance with or adoption of OMG specifications may require use of an invention covered by patent rights. OMG shall not be responsible for identifying patents for which a license may be required by any OMG specification, or for conducting legal inquiries into the legal validity or scope of those patents that are brought to its attention. OMG specifications are prospective and advisory only.

Prospective users are responsible for protecting themselves against liability for infragement of patents.

GENERAL USE RESTRICTIONS

Any unauthorized use of this specification may violate copyright laws, trademark laws, and communications regulations and statutes. This document contains information which is protected by copyright. An Rights Reserved. No part of this work covered by copyright herein may be reproduced or used in any formor by any means--graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems--without permission of the copyright owner.

DISCLAIMER OF WARRANTY

WHILE THIS PUBLICATION IS BELIEVED TO BE ACCURATE, IT IS PROVIDED "AS IS" AND MAY CONTAIN ERRORS OR MISPRINTS. THE OBJECT MANAGEMENT GROUP AND THE COMPANIES LISTED AROVE MAKE NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS PUBLICATION, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF TITLE OR OWNERSHIP, MPLIED WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE. IN NO EVENT SHALL THE OBJECT MANAGEMENT GROUP OR ANY OF THE COMPANIES LISTED ABOVE BE LIABLE FOR ERRORS CONTAINED HEREIN OR FOR DIRECT, INDIRECT INCIDENTAL, SPECIAL, CONSEQUENTIAL, RELIANCE OR COVER DAMAGES, INCLUDING LOSS OF PROFITS, REVENUE, DATA OR USE, INCURRED BY ANY USER OR ANY THIRD PARTY IN CONNECTION WITH THE FURNISHING, PERFORMANCE, OR USE OF THIS MATERIAL, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

The entire risk as to the quality and performance of software developed using this specification is borne by you. This disclaimer of warranty constitutes an essential part of the license granted to you to use this specification.

RESTRICTED RIGHTS LEGEND

Use, duplication or disclosure by the U.S. Government is subject to the restrictions set forth in subparagraph (c) (1) (ii) of The Rights in Technical Data and Computer Software Clause at DFARS 252.227-7013 or in subparagraph (c)(1) and (2) of the Commercial Computer Software - Restricted Rights clauses at 48 C.F.R. 52.227-19 or as specified in 48 C.F.R. 227-7203-2 of the DoD F.A.R. Supplement and its successors, or as specified in 48 C.F.R. 12.212 of the Federal Acquisition Regulations and its successors, as applicable. The specification copyright owners are as indicated above and may be contacted through the Object Management Group, 9C Medway Road, PMB 274, Milford, MA 01757, U.S.A.

TRADEMARKS

CORBA®, CORBA logos®, FIBO®, Financial Industry Business Ontology®, FINANCIAL INSTRUMENT GLOBAL IDENTIFIER®, IIOP®, IMM®, Model Driven Architecture®, MDA®, Object Management Group®, OMG®, OMG Logo®, SoaML®, SOAML®, SysML®, UAF®, Unified Modeling Language®, UML®, UML Cube Logo®, VSIPL®, and XMI® are registered trademarks of the Object Management Group, Inc. SPDX® is a registered trademark of the Linux Foundation.

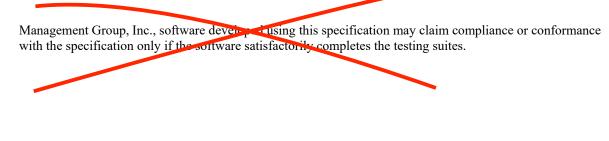
For a complete list of trademarks, see: <u>https://www.omg.org/legal/tm_list.htm</u>. All other products or company names mentioned are used for identification purposes only, and may be trademarks of their respective owners.

COMPLIANCE

The copyright holders listed above acknowledge that the Object Management Group (acting itself or through its designees) is and shall at all times be the sole entity that may authorize developers, suppliers and sellers of computer software to use certification marks, trademarks or other special designations to indicate compliance with these materials.

Software developed under the terms of this license may claim compliance or conformance with this specification if and only if the software compliance is of a nature fully matching the applicable compliance points as stated in the specification. Software developed only partially matching the applicable compliance points may claim only that the software was based on this specification, but may not claim compliance or conformance with this specification. In the event that testing suites are implemented or approved by Object

System Package Data Exchange (SPDX), v3.0 - beta 1



OMG's Issue Reporting Procedure

All OMG specifications are subject to continuous review and improvement. As part of this process we encourage readers to report any ambiguities, inconsistencies, or inaccuracies they may find by completing the Issue Reporting Form listed on the main web page https://www.omg.org, under Documents, Report a Bug/Issue.

6 Additional Information

6.1 Changes to Other OMG Specifications

None.

6.2 Acknowledgments

The following organizations submitted this specification:

- CAST Software
- The MITRE Corporation

The following additional organizations contributed to this specification:

• The Linux Foundation

Removed to align with Linux Foundation conventions

6.3 Intellectual Property Rights

Covered in new material on 2nd page

The SPDX 3.0 specification and related artifacte are available under the OMG's Copyright and Non-Assertion Covenant (see https://www.omg.org/cgi-bin/doc.cgi?ipr for details).

The ontologies themselves are licensed under the Community Specification License 1.0 open-cource license agreement, available at https://github.com/spdx/governance/blob/main/1._Community_Specification_License-v1.md.

Annex G: Community Specification License 1.0

The Purpose of this License. This License sets forth the terms under which 1) Contributor will participate in and contribute to the development of specifications, standards, best practices, guidelines, and other similar materials under this Working Group, and 2) how the materials developed under this License may be used. It is not intended for source code. Capitalized terms are defined in the License's last section.

1. Copyright.

1.1. Copyright License. Contributor grants everyone a non-sublicensable, perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as expressly stated in this License) copyright license, without any obligation for accounting, to reproduce, prepare derivative works of, publicly display, publicly perform, and distribute any materials it submits to the full extent of its copyright interest in those materials. Contributor also acknowledges that the Working Group may exercise copyright rights in the Specification, including the rights to submit the Specification to another standards organization.

1.2. Copyright Attribution. As a condition, anyone exercising this copyright license must include attribution to the Working Group in any derivative work based on materials developed by the Working Group. That attribution must include, at minimum, the material's name, version number, and source from where the materials were retrieved. Attribution is not required for implementations of the Specification.

2. Patents.

2.1. Patent License.

2.1.1. As a Result of Contributions.

2.1.1.1. As a Result of Contributions to Draft Specifications. Contributor grants Licensee a non-sublicensable, perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as expressly stated in this License) license to its Necessary Claims in 1) Contributor's Contributions and 2) to the Draft Specification that is within Scope as of the date of that Contribution, in both cases for Licensee's Implementation of the Draft Specification, except for those patent claims excluded by Contributor under Section 3.

2.1.1.2. For Approved Specifications. Contributor grants Licensee a non-sublicensable, perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as expressly stated in this License) license to its Necessary Claims included the Approved Specification that are within Scope for Licensee's Implementation of the Approved Specification, except for those patent claims excluded by Contributor under Section 3.

2.1.2. Patent Grant from Licensee. Licensee grants each other Licensee a non-sublicensable, perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as expressly

stated in this License) license to its Necessary Claims for its Implementation, except for those patent claims excluded under Section 3.

2.1.3. Licensee Acceptance. The patent grants set forth in Section 2.1 extend only to Licensees that have indicated their agreement to this License as follows:

2.1.3.1. Source Code Distributions. For distribution in source code, by including this License in the root directory of the source code with the Implementation;

2.1.3.2. Non-Source Code Distributions. For distribution in any form other than source code, by including this License in the documentation, legal notices, via notice in the software, and/or other written materials provided with the Implementation; or

2.1.3.3. Via Notices.md. By issuing pull request or commit to the Specification's repository's Notices.md file by the Implementer's authorized representative, including the Implementer's name, authorized individual and system identifier, and Specification version.

2.1.4. Defensive Termination. If any Licensee files or maintains a claim in a court asserting that a Necessary Claim is infringed by an Implementation, any licenses granted under this License to the Licensee are immediately terminated unless 1) that claim is directly in response to a claim against Licensee regarding an Implementation, or 2) that claim was brought to enforce the terms of this License, including intervention in a third-party action by a Licensee.

2.1.5. Additional Conditions. This License is not an assurance (i) that any of Contributor's copyrights or issued patent claims cover an Implementation of the Specification or are enforceable or (ii) that an Implementation of the Specification would not infringe intellectual property rights of any third party.

2.2. Patent Licensing Commitment. In addition to the rights granted in Section 2.1, Contributor agrees to grant everyone a no charge, royalty-free license on reasonable and non-discriminatory terms to Contributor's Necessary Claims that are within Scope for: 1) Implementations of a Draft Specification, where such license applies only to those Necessary Claims infringed by implementing Contributor's Contribution(s) included in that Draft Specification, and 2) Implementations of the Approved Specification.

This patent licensing commitment does not apply to those claims subject to Contributor's Exclusion Notice under Section 3.

2.3. Effect of Withdrawal. Contributor may withdraw from the Working Group by issuing a pull request or commit providing notice of withdrawal to the Working Group repository's Notices.md file. All of Contributor's existing commitments and obligations with respect to the Working Group up to the date of that withdrawal notice will remain in effect, but no new obligations will be incurred.

2.4. Binding Encumbrance. This License is binding on any future owner, assignee, or party who has been given the right to enforce any Necessary Claims against third parties.

3. Patent Exclusion.

3.1. As a Result of Contributions. Contributor may exclude Necessary Claims from its licensing commitments incurred under Section 2.1.1 by issuing an Exclusion Notice within 45 days of the date of that Contribution. Contributor may not issue an Exclusion Notice for any material that has been included in a Draft Deliverable for more than 45 days prior to the date of that Contribution.

3.2. As a Result of a Draft Specification Becoming an Approved Specification. Prior to the adoption of a Draft Specification as an Approved Specification, Contributor may exclude Necessary Claims from its licensing commitments under this Agreement by issuing an Exclusion Notice. Contributor may not issue an Exclusion Notice for patents that were eligible to have been excluded pursuant to Section 3.1.

4. Source Code License. Any source code developed by the Working Group is solely subject the source code license included in the Working Group's repository for that code. If no source code license is included, the source code will be subject to the MIT License.

5. No Other Rights. Except as specifically set forth in this License, no other express or implied patent, trademark, copyright, or other rights are granted under this License, including by implication, waiver, or estoppel.

6. Antitrust Compliance. Contributor acknowledge that it may compete with other participants in various lines of business and that it is therefore imperative that they and their respective representatives act in a manner that does not violate any applicable antitrust laws and regulations. This License does not restrict any Contributor from engaging in similar specification development projects. Each Contributor may design, develop, manufacture, acquire or market competitive deliverables, products, and services, and conduct its business, in whatever way it chooses. No Contributor is obligated to announce or market any products or services. Without limiting the generality of the foregoing, the Contributors agree not to have any discussion relating to any product pricing, methods or channels of product distribution, division of markets, allocation of customers or any other topic that should not be discussed among competitors under the auspices of the Working Group.

7. Non-Circumvention. Contributor agrees that it will not intentionally take or willfully assist any third party to take any action for the purpose of circumventing any obligations under this License.

8. Representations, Warranties and Disclaimers.

8.1. Representations, Warranties and Disclaimers. Contributor and Licensee represents and warrants that 1) it is legally entitled to grant the rights set forth in this License and 2) it will not intentionally include any third party materials in any Contribution unless those materials are available under terms that do not conflict with this License. IN ALL OTHER RESPECTS ITS CONTRIBUTIONS ARE PROVIDED "AS IS." The entire risk as to implementing or otherwise using the Contribution or the Specification is assumed by the implementer and user. Except as

stated herein, CONTRIBUTOR AND LICENSEE EXPRESSLY DISCLAIM ANY WARRANTIES (EXPRESS, IMPLIED, OR OTHERWISE), INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, CONDITIONS OF QUALITY, OR TITLE, RELATED TO THE CONTRIBUTION OR THE SPECIFICATION. IN NO EVENT WILL ANY PARTY BE LIABLE TO ANY OTHER PARTY FOR LOST PROFITS OR ANY FORM OF INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER FROM ANY CAUSES OF ACTION OF ANY KIND WITH RESPECT TO THIS AGREEMENT, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), OR OTHERWISE, AND WHETHER OR NOT THE OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Any obligations regarding the transfer, successors in interest, or assignment of Necessary Claims will be satisfied if Contributor or Licensee notifies the transferee or assignee of any patent that it knows contains Necessary Claims or necessary claims under this License. Nothing in this License requires Contributor to undertake a patent search. If Contributor is 1) employed by or acting on behalf of an employer, 2) is making a Contribution under the direction or control of a third party, or 3) is making the Contribution as a consultant, contractor, or under another similar relationship with a third party, Contributor represents that they have been authorized by that party to enter into this License on its behalf.

8.2. Distribution Disclaimer. Any distributions of technical information to third parties must include a notice materially similar to the following: "THESE MATERIALS ARE PROVIDED "AS IS." The Contributors and Licensees expressly disclaim any warranties (express, implied, or otherwise), including implied warranties of merchantability, non-infringement, fitness for a particular purpose, or title, related to the materials. The entire risk as to implementing or otherwise using the materials is assumed by the implementer and user. IN NO EVENT WILL THE CONTRIBUTORS OR LICENSEES BE LIABLE TO ANY OTHER PARTY FOR LOST PROFITS OR ANY FORM OF INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER FROM ANY CAUSES OF ACTION OF ANY KIND WITH RESPECT TO THIS DELIVERABLE OR ITS GOVERNING AGREEMENT, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), OR OTHERWISE, AND WHETHER OR NOT THE OTHER MEMBER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE."

9. Definitions.

9.1. Affiliate. "Affiliate" means an entity that directly or indirectly Controls, is Controlled by, or is under common Control of that party.

9.2. Approved Specification. "Approved Specification" means the final version and contents of any Draft Specification designated as an Approved Specification as set forth in the accompanying Governance.md file.

9.3. Contribution. "Contribution" means any original work of authorship, including any modifications or additions to an existing work, that Contributor submits for inclusion in a Draft Specification, which is included in a Draft Specification or Approved Specification.

9.4. Contributor. "Contributor" means any person or entity that has indicated its acceptance of the License 1) by making a Contribution to the Specification, or 2) by entering into the Community Specification Contributor License Agreement for the Specification. Contributor includes its Affiliates, assigns, agents, and successors in interest.

9.5. Control. "Control" means direct or indirect control of more than 50% of the voting power to elect directors of that corporation, or for any other entity, the power to direct management of such entity.

9.6. Draft Specification. "Draft Specification" means all versions of the material (except an Approved Specification) developed by this Working Group for the purpose of creating, commenting on, revising, updating, modifying, or adding to any document that is to be considered for inclusion in the Approved Specification.

9.7. Exclusion Notice. "Exclusion Notice" means a written notice made by making a pull request or commit to the repository's Notices.md file that identifies patents that Contributor is excluding from its patent licensing commitments under this License. The Exclusion Notice for issued patents and published applications must include the Draft Specification's name, patent number(s) or title and application number(s), as the case may be, for each of the issued patent(s) or pending patent application(s) that the Contributor is excluding from the royalty-free licensing commitment set forth in this License. If an issued patent or pending patent application that may contain Necessary Claims is not set forth in the Exclusion Notice, those Necessary Claims shall continue to be subject to the licensing commitments under this License. The Exclusion Notice for unpublished patent applications must provide either: (i) the text of the filed application; or (ii) identification of the specific part(s) of the Draft Specification whose implementation makes the excluded claim a Necessary Claim. If (ii) is chosen, the effect of the exclusion will be limited to the identified part(s) of the Draft Specification.

9.8. Implementation. "Implementation" means making, using, selling, offering for sale, importing or distributing any implementation of the Specification 1) only to the extent it implements the Specification and 2) so long as all required portions of the Specification are implemented.

9.9. License. "License" means this Community Specification License.

9.10. Licensee. "Licensee" means any person or entity that has indicated its acceptance of the License as set forth in Section 2.1.3. Licensee includes its Affiliates, assigns, agents, and successors in interest.

9.11. Necessary Claims. "Necessary Claims" are those patent claims, if any, that a party owns or controls, including those claims later acquired, that are necessary to implement the required portions (including the required elements of optional portions) of the Specification that are described in detail and not merely referenced in the Specification.

9.12. Specification. "Specification" means a Draft Specification or Approved Specification included in the Working Group's repository subject to this License, and the version of the Specification implemented by the Licensee.

9.13. Scope. "Scope" has the meaning as set forth in the accompanying Scope.md file included in this Specification's repository. Changes to Scope do not apply retroactively. If no Scope is provided, each Contributor's Necessary Claims are limited to that Contributor's Contributions.

9.14. Working Group. "Working Group" means this project to develop specifications, standards, best practices, guidelines, and other similar materials under this License.

The text of this Community Specification License is Copyright 2020 Joint Development Foundation and is licensed under the Creative Commons Attribution 4.0 International License available at https://creativecommons.org/licenses/by/4.0/.

SPDX-License-Identifier: CC-BY-4.0

Annex H: Creative Commons Attribution License 3.0 Unported

License

THE WORK (AS DEFINED BELOW) IS PROVIDED UNDER THE TERMS OF THIS CREATIVE COMMONS PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY COPYRIGHT AND/OR OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS AUTHORIZED UNDER THIS LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE. TO THE EXTENT THIS LICENSE MAY BE CONSIDERED TO BE A CONTRACT, THE LICENSOR GRANTS YOU THE RIGHTS CONTAINED HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

1) **Definitions**

a. "Adaptation" means a work based upon the Work, or upon the Work and other pre-existing works, such as a translation, adaptation, derivative work, arrangement of music or other alterations of a literary or artistic work, or phonogram or performance and includes cinematographic adaptations or any other form in which the Work may be recast, transformed, or adapted including in any form recognizably derived from the original, except that a work that constitutes a Collection will not be considered an Adaptation for the purpose of this License. For the avoidance of doubt, where the Work is a musical work, performance or phonogram, the synchronization of the Work in timed-relation with a moving image ("synching") will be considered an Adaptation for the purpose.

b. "Collection" means a collection of literary or artistic works, such as encyclopedias and anthologies, or performances, phonograms or broadcasts, or other works or subject matter other than works listed in Section 1(f) below, which, by reason of the selection and arrangement of their contents, constitute intellectual creations, in which the Work is included in its entirety in unmodified form along with one or more other contributions, each constituting separate and independent works in themselves, which together are assembled into a collective whole. A work that constitutes a Collection will not be considered an Adaptation (as defined above) for the purposes of this License.

c. "**Distribute**" means to make available to the public the original and copies of the Work or Adaptation, as appropriate, through sale or other transfer of ownership.

d. "Licensor" means the individual, individuals, entity or entities that offer(s) the Work under the terms of this License.

e. "Original Author" means, in the case of a literary or artistic work, the individual, individuals, entity or entities who created the Work or if no individual or entity can be identified, the publisher; and in addition (i) in the case of a performance the actors, singers, musicians, dancers, and other persons who act, sing, deliver, declaim, play in, interpret or otherwise perform literary or artistic works or expressions of folklore; (ii) in the case of a phonogram the producer being the person or legal entity who first fixes the sounds of a performance or other sounds; and, (iii) in the case of broadcasts, the organization that transmits the broadcast.

f. **"Work"** means the literary and/or artistic work offered under the terms of this License including without limitation any production in the literary, scientific and artistic domain, whatever may be the mode or form of its expression including digital form, such as a book, pamphlet and other writing; a lecture, address, sermon or other work of the same nature; a dramatic or dramatico-musical work; a choreographic work or entertainment in dumb show; a musical composition with or without words; a cinematographic work to which are assimilated works expressed by a process analogous to cinematography; a work of drawing, painting, architecture, sculpture, engraving or lithography; a photographic work to which are assimilated works expressed by a process analogous to photography; a work of applied art; an illustration, map, plan, sketch or three-dimensional work relative to geography, topography, architecture or science; a performance; a broadcast; a phonogram; a compilation of data to the extent it is protected as a copyrightable work; or a work performed by a variety or circus performer to the extent it is not otherwise considered a literary or artistic work.

g. "You" means an individual or entity exercising rights under this License who has not previously violated the terms of this License with respect to the Work, or who has received express permission from the Licensor to exercise rights under this License despite a previous violation.

h. "**Publicly Perform**" means to perform public recitations of the Work and to communicate to the public those public recitations, by any means or process, including by wire or wireless means or public digital performances; to make available to the public Works in such a way that members of the public may access these Works from a place and at a place individually chosen by them; to perform the Work to the public by any means or process and the communication to the public of the performances of the Work, including by public digital performance; to broadcast and rebroadcast the Work by any means including signs, sounds or images.

i. "**Reproduce**" means to make copies of the Work by any means including without limitation by sound or visual recordings and the right of fixation and reproducing fixations of the Work, including storage of a protected performance or phonogram in digital form or other electronic medium.

2) Fair Dealing Rights. Nothing in this License is intended to reduce, limit, or restrict any uses free from copyright or rights arising from limitations or exceptions that are provided for in connection with the copyright protection under copyright law or other applicable laws.

3) **License Grant**. Subject to the terms and conditions of this License, Licensor hereby grants You a worldwide, royalty-free, non-exclusive, perpetual (for the duration of the applicable copyright) license to exercise the rights in the Work as stated below:

a. to Reproduce the Work, to incorporate the Work into one or more Collections, and to Reproduce the Work as incorporated in the Collections;

b. to create and Reproduce Adaptations provided that any such Adaptation, including any translation in any medium, takes reasonable steps to clearly label, demarcate or otherwise identify that changes were made to the original Work. For example, a translation could be marked "The original work was translated from English to Spanish," or a modification could indicate "The original work has been modified.";

c. to Distribute and Publicly Perform the Work including as incorporated in Collections; and,

d. to Distribute and Publicly Perform Adaptations.

e. For the avoidance of doubt:

i. **Non-waivable Compulsory License Schemes**. In those jurisdictions in which the right to collect royalties through any statutory or compulsory licensing scheme cannot be waived, the Licensor reserves the exclusive right to collect such royalties for any exercise by You of the rights granted under this License;

ii. **Waivable Compulsory License Schemes**. In those jurisdictions in which the right to collect royalties through any statutory or compulsory licensing scheme can be waived, the Licensor waives the exclusive right to collect such royalties for any exercise by You of the rights granted under this License; and,

iii. **Voluntary License Schemes**. The Licensor waives the right to collect royalties, whether individually or, in the event that the Licensor is a member of a collecting society that administers voluntary licensing schemes, via that society, from any exercise by You of the rights granted under this License.

The above rights may be exercised in all media and formats whether now known or hereafter devised. The above rights include the right to make such modifications as are technically necessary to exercise the rights in other media and formats. Subject to Section 8(f), all rights not expressly granted by Licensor are hereby reserved.

4) **Restrictions**. The license granted in Section 3 above is expressly made subject to and limited by the following restrictions:

a. You may Distribute or Publicly Perform the Work only under the terms of this License. You must include a copy of, or the Uniform Resource Identifier (URI) for, this License with every copy of the Work You Distribute or Publicly Perform. You may not offer or impose any terms on the Work that restrict the terms of this License or the ability of the recipient of the Work to

exercise the rights granted to that recipient under the terms of the License. You may not sublicense the Work. You must keep intact all notices that refer to this License and to the disclaimer of warranties with every copy of the Work You Distribute or Publicly Perform. When You Distribute or Publicly Perform the Work, You may not impose any effective technological measures on the Work that restrict the ability of a recipient of the Work from You to exercise the rights granted to that recipient under the terms of the License. This Section 4(a) applies to the Work as incorporated in a Collection, but this does not require the Collection apart from the Work itself to be made subject to the terms of this License. If You create a Collection, upon notice from any Licensor You must, to the extent practicable, remove from the Collection any credit as required by Section 4(b), as requested. If You create an Adaptation any credit as required by Section 4(b), as requested.

b. If You Distribute, or Publicly Perform the Work or any Adaptations or Collections, You must, unless a request has been made pursuant to Section 4(a), keep intact all copyright notices for the Work and provide, reasonable to the medium or means You are utilizing: (i) the name of the Original Author (or pseudonym, if applicable) if supplied, and/or if the Original Author and/or Licensor designate another party or parties (e.g., a sponsor institute, publishing entity, journal) for attribution ("Attribution Parties") in Licensor's copyright notice, terms of service or by other reasonable means, the name of such party or parties; (ii) the title of the Work if supplied; (iii) to the extent reasonably practicable, the URI, if any, that Licensor specifies to be associated with the Work, unless such URI does not refer to the copyright notice or licensing information for the Work; and (iv), consistent with Section 3(b), in the case of an Adaptation, a credit identifying the use of the Work in the Adaptation (e.g., "French translation of the Work by Original Author," or "Screenplay based on original Work by Original Author"). The credit required by this Section 4 (b) may be implemented in any reasonable manner; provided, however, that in the case of a Adaptation or Collection, at a minimum such credit will appear, if a credit for all contributing authors of the Adaptation or Collection appears, then as part of these credits and in a manner at least as prominent as the credits for the other contributing authors. For the avoidance of doubt, You may only use the credit required by this Section for the purpose of attribution in the manner set out above and, by exercising Your rights under this License, You may not implicitly or explicitly assert or imply any connection with, sponsorship or endorsement by the Original Author, Licensor and/or Attribution Parties, as appropriate, of You or Your use of the Work, without the separate, express prior written permission of the Original Author, Licensor and/or Attribution Parties.

c. Except as otherwise agreed in writing by the Licensor or as may be otherwise permitted by applicable law, if You Reproduce, Distribute or Publicly Perform the Work either by itself or as part of any Adaptations or Collections, You must not distort, mutilate, modify or take other derogatory action in relation to the Work which would be prejudicial to the Original Author's honor or reputation. Licensor agrees that in those jurisdictions (e.g. Japan), in which any exercise of the right granted in Section 3(b) of this License (the right to make Adaptations) would be deemed to be a distortion, mutilation, modification or other derogatory action prejudicial to the Original Author's honor and reputation, the Licensor will waive or not assert, as appropriate, this Section, to the fullest extent permitted by the applicable national law, to enable You to

reasonably exercise Your right under Section 3(b) of this License (right to make Adaptations) but not otherwise.

5) Representations, Warranties and Disclaimer

UNLESS OTHERWISE MUTUALLY AGREED TO BY THE PARTIES IN WRITING, LICENSOR OFFERS THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTIBILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OF ABSENCE OF ERRORS, WHETHER OR NOT DISCOVERABLE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO SUCH EXCLUSION MAY NOT APPLY TO YOU.

6) Limitation on Liability. EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE LAW, IN NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF THIS LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7) Termination

a. This License and the rights granted hereunder will terminate automatically upon any breach by You of the terms of this License. Individuals or entities who have received Adaptations or Collections from You under this License, however, will not have their licenses terminated provided such individuals or entities remain in full compliance with those licenses. Sections 1, 2, 5, 6, 7, and 8 will survive any termination of this License.

b. Subject to the above terms and conditions, the license granted here is perpetual (for the duration of the applicable copyright in the Work). Notwithstanding the above, Licensor reserves the right to release the Work under different license terms or to stop distributing the Work at any time; provided, however that any such election will not serve to withdraw this License (or any other license that has been, or is required to be, granted under the terms of this License), and this License will continue in full force and effect unless terminated as stated above.

8) Miscellaneous

a. Each time You Distribute or Publicly Perform the Work or a Collection, the Licensor offers to the recipient a license to the Work on the same terms and conditions as the license granted to You under this License.

b. Each time You Distribute or Publicly Perform an Adaptation, Licensor offers to the recipient a license to the original Work on the same terms and conditions as the license granted to You under this License.

c. If any provision of this License is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this License, and without further action by the parties to this agreement, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

d. No term or provision of this License shall be deemed waived and no breach consented to unless such waiver or consent shall be in writing and signed by the party to be charged with such waiver or consent.

e. This License constitutes the entire agreement between the parties with respect to the Work licensed here. There are no understandings, agreements or representations with respect to the Work not specified here. Licensor shall not be bound by any additional provisions that may appear in any communication from You. This License may not be modified without the mutual written agreement of the Licensor and You.

f. The rights granted under, and the subject matter referenced, in this License were drafted utilizing the terminology of the Berne Convention for the Protection of Literary and Artistic Works (as amended on September 28, 1979), the Rome Convention of 1961, the WIPO Copyright Treaty of 1996, the WIPO Performances and Phonograms Treaty of 1996 and the Universal Copyright Convention (as revised on July 24, 1971). These rights and subject matter take effect in the relevant jurisdiction in which the License terms are sought to be enforced according to the corresponding provisions of the implementation of those treaty provisions in the applicable national law. If the standard suite of rights granted under applicable copyright law includes additional rights not granted under this License, such additional rights are deemed to be included in the License; this License is not intended to restrict the license of any rights under applicable law.