



Mapping ONIX-PL to ERMI

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1. Introduction

This document represents the interim conclusions of work carried out in recent months to determine the extent to which a mapping between ONIX-PL license expressions and ERMI license encodings is achievable, and to define the relationships and processes that are required to make it effective. The work was partly funded by a contribution from the [Digital Library Federation](#).

A mapping from ONIX-PL to ERMI is required if an ONIX-PL license expression is to be used to load license details into an ERM system that is built around the ERMI data model and license terms vocabulary. In this case, the ONIX-PL message carries a full expression of the license, from which those portions that can be encoded as ERMI terms must be extracted and mapped. This form of mapping cannot be reversed.

A two-way mapping, of a rather different form, is required if an ERMI encoding of a license is to be communicated from one system to another as a special form of ONIX-PL message. In this case, the entire ERMI encoding will be transferred into the ONIX message, but the result will not constitute a full expression of the original license. Some elements from the license will inevitably be omitted, and there will be elements of ERMI encoding that represent the licensee's interpretation of the license rather than a direct expression of the original wording. This form of mapping is addressed in a separate paper (*ONIX-PL ERMI encoding format*).

This mapping document is organised in accordance with the broad structure of an ONIX-PL expression, so that there are three separate sections dealing with Supply Terms, Usage Terms (unquestionably the most important) and General Terms. In addition, there are a few cases where ERMI content must be taken direct from an ONIX-PL Definition, and these are covered in a fourth section. Each section is discussed briefly in this introduction, and is then detailed in a series of tables.

The ONIX-PL vocabulary is still developing, and does not yet represent a definitive Version 1. The terms listed in this draft are a snapshot of those that were being used in August 2007. The vocabulary has changed since then, and it will be subject to further change. However, once a stable Version 1 has been published – expected in the Spring of 2008 – the same principles will apply as with controlled values in other ONIX formats: terms will not be deleted, and their meanings will not be changed. Definitions may be clarified, new terms will be added, and existing terms may occasionally be marked as “deprecated” in favour of others that have been added.

This underlines a significant difference between ONIX and ERMI. ONIX-PL has been planned from the outset to be actively maintained so that the functionality of the format and the vocabulary will be extended to respond to new technological or other directions in the licensing of electronic content; whereas ERMI has specified a fixed set of terms with no active framework for maintaining and extending them.

2. ONIX-PL supply terms

2.1 Mapping ONIX supply terms: general

Where an ONIX-PL supply term has a straightforward counterpart in ERMI, there are two possible forms of mapping. Where ERMI has a text element, it can generally be populated from an annotation in the ONIX-PL expression. Where ERMI has a “Yes/No” or “Yes/No/Unspecified” value, it is essential that the ONIX-PL term type should be defined in a way that ensures that presence of the ONIX element can be mapped as a “Yes”. This has proved to be the case for all applicable terms, in one or two cases with an extension to the existing ONIX vocabulary.

2.2 ONIX supply terms that haveNo equivalent in ERMI

Table 1 shows that some 12 ONIX supply terms out of the current set have no direct equivalent in ERMI. Most are unlikely to be of any great consequence for library staff or users. There are some possible exceptions: *Changes To Licensed Content*, *Usage Statistics*, and *User Support* might deserve some consideration.

3. ONIX-PL usage terms

3.1 Mapping ONIX usage type and status

The fundamental elements in an ONIX usage term are the usage type and the usage status (permitted, prohibited etc). ERMI similarly identifies usage types and gives each type a status value. The usage type determines whether the ONIX term can be represented in an ERMI encoding, and the usage status determines the value that is assigned.

The Usage Terms table (Table 2) lists ONIX usage terms in alphabetical order, and shows whether and how each can be mapped into ERMI values. The assumption has been made that

- (a) ONIX “*permitted*” will always be mapped as ERMI “*permitted explicit*”;
- (b) ONIX “*prohibited*” will always be mapped as ERMI “*prohibited explicit*”; and
- (c) Absence of an ONIX usage that has an ERMI counterpart will always be mapped as ERMI “*silent uninterpreted*”.

Clearly, ERMI values that involve interpretation cannot be generated algorithmically, so that an ERMI encoding derived automatically from an ONIX expression may need to be edited by the user institution to decide whether “*silent uninterpreted*” values should be replaced by interpreted values.

There are a few usages that cannot be mapped as such but that may result in an ERMI element being generated. For example, ERMI has no “access” usage, but records any specified limit on the number of concurrent users, which in ONIX is a qualifier on the usage. See Table 2, line 1.

There is also one case of an ERMI usage term, “*Distance Education*”, which is not treated as a usage in ONIX. In reality, “*Distance Education*” represents an extension of the set of authorized users to include students registered on distance learning courses with a licensee institution, and the usages permitted to them will typically be those that apply to other students. However, the ERMI *Distance Education* term can be generated from the ONIX definition of *AuthorizedUser*. See Table 4, line 2.

3.2 Possible modifications to the ERMI vocabulary

At the meeting held in Boston in December 2006, there were two areas where ERMI participants felt that there was a case for revising the ERMI 1 vocabulary:

- (a) While in general ERMI has a separate notes field for each usage type, there are some places where ERMI 1 provides only a single note field for two or more related usages. This creates an evident problem when both usages can occur together, though it is acceptable when the usages are mutually exclusive. The present paper assumes that ERMI will support individual notes fields on all usages, and where this represents an extension to ERMI 1, it is explicitly indicated in Table 2, and shown in blue (see lines 9 and 10).
- (b) The ERMI 1 usages relating to printed and electronic course packs and reserves were felt to be unsatisfactory, on two counts: there was an inconsistency between the definitions of “*Course Reserve Print*” and “*Course Reserve Electronic/Cached Copy*”, making the latter seem very much more permissive than the former; and it was felt that it was both difficult and unnecessary to differentiate between “*Course Pack Electronic*” and “*Course Reserve Electronic*”, which would be better combined into a single usage. In ONIX, we would like to apply this same principle to printed course packs and reserves, combining these also into a single usage. This approach has been adopted in the present paper, and again the suggested changes are shown in blue in Table 2 (see lines 19 and 20).

3.3 Generating ERMI notes elements from ONIX usage terms

Besides the usage verb and usage status, an ONIX usage term expression may have one or more of the following elements:

Usage reference: carrying a citation of the relevant clause of the license, and the text of the clause.

User: mandatory, specifying the class of user to which the permission applies.

Used resource: also mandatory, specifying the licensed content to which the permission applies.

Output resource: if applicable, specifying a new resource that is created as a consequence of the usage, and that may itself be referenced in a subsequent usage.

Usage purpose: an ONIX controlled value specifying a purpose for which the usage is permitted or prohibited.

Usage condition: an ONIX controlled value specifying a condition under which the usage is permitted or prohibited.

Usage quantity: a quantity limitation on the usage.

Usage related XXXX, where XXXX may be an agent, a resource, a timepoint or a place, in each case linked by a relator that is itself an ONIX controlled value.

These are the elements that could be used to generate an ERMI notes field. At one extreme, it might be argued that it would be sufficient to use the text of the usage reference to populate the note, since any other elements normally represent a formalisation of what is stated in the text. This would mean that the generated notes would probably need to be reviewed by the subscriber institution to decide whether and how they needed to be edited into more accessible language.

At the other extreme, rules might be constructed to take other elements and generate readable text based on the formalised values; but it would be premature to try to define such rules until a larger corpus of licences has been expressed in ONIX-PL so that they can be used to identify patterns of use of added elements, and to test the proposed rules.

3.4 ONIX usages that haveNo equivalent in ERMI

Table 2 shows that some 15 ONIX usages out of the current – very provisional - set have no direct equivalent in ERMI. It is interesting to consider them in a number of categories.

First, there are several that are clearly only of concern to a licensee at management level, and would never need to be reflected in permissions information that is made available to end-users. These include:

Line 12 *Make Temporary Digital Copy* – which refers to the caching of content in a local network.

Line 15 *Provide Integrated Access*

Line 16 *Provide Integrated Index*

All of these relate to the processes by which a licensee institution may deliver licensed material to authorized users, and do not affect usage permissions to individual users.

Second, there is one that may be regarded as so fundamental that it can be “assumed”, although it may carry qualifications that are significant (and that are capable of being represented in ERMI, although the usage itself is not):

Line 1 *Access By Secure Authentication*

Third, there are three that make explicit a usage permission that might or might not be regarded as implicit. They are:

Line 8 *Include In Presentation* – bearing in mind that the audience for a presentation is in general not limited to authorized users.

Line 18 *Reproduce In Academic Work* – ie work that is undertaken as part of a course of study at any academic level, for personal use and possibly library deposit, not for publication.

Line 21 *Reproduce In Special Needs Instructional Material* (eg Braille, audio) – which is very often explicit in licenses in one form or another.

Fourth, there are two that relate to areas that are still quite controversial:

Line 3 *Copy And Distribute Without Restriction* (a resource of which the authorized user is an author) – this relates to an author’s freedom to use other channels to distribute her/his own publications, and is sometimes subject to specific restraints, eg an author may not use a direct copy of the published article, but may use a text that incorporates changes made as a result of peer review by the journal in question.

Line 5 *Deposit Digital Copy* (of a resource that includes licensed content, typically a learning object, in a repository) – this again is liable to be subject to restraints imposed by some licenses. It is a very active requirement, at least in the UK academic community.

Fifth, there are three that are generic in nature, so that any individual permitted or prohibited usage that uses them must include other elements to make them meaningful. It would if possible be desirable to avoid reliance on this type of usage verb, but at this stage there is probably insufficient evidence to enable us to define appropriate specializations.

Line 2 *Copy And Distribute* – eg training material including licensed content.

Line 24 *Supply Copy* – eg a copy of an academic work including licensed content to a sponsor of the work who is not an authorized user, or a copy of a licensed content excerpt to an academic colleague who is not an authorized user.

Line 25 *Use For Specified Purpose* – eg in a prohibition of use for any commercial purpose.

Sixth, there are four that are included in ONIX specifically as prohibited usages that commonly occur in publications licenses:

Line 7 *Display Or Distribute Except As Permitted*

Line 13 *Modify Except As Permitted*

Line 17 *Remove Obscure Or Modify* – specified “protected content” such as acknowledgments, disclaimers etc.

Line 23 *Sell*

Finally, there is one that is often not made explicit in licenses, but is so in the CDL and DLF/CLIR model agreements. ONIX would prefer to regard it as implicit in an “Access” verb:

Line 6 *Display Digitally*

This brief analysis shows that there is a good deal of variety in the ONIX usages that have no equivalent in ERMI. Some may be regarded as relatively insignificant. Others, such as *Deposit Digital Copy*, are important, and are likely to be permitted in some licenses, and prohibited or subject to specified constraints in others.

4. ONIX-PL general terms

4.1 Mapping ONIX general terms

Where an ONIX-PL general term has a straightforward counterpart in ERMI, there are two possible forms of mapping. Where ERMI has a text element, it can generally be populated from an annotation in the ONIX-PL expression. Where ERMI has a “Yes/No” value, it is essential that the ONIX-PL term type should be defined in a way that ensures that presence of the ONIX element can be mapped as a “Yes”. This has proved to be the case for all applicable terms.

4.2 Specific problems with general terms

4.2.1 Licensee and Licensor Termination Right

Lines 22, 24 and 29 in Table 3 point to a problem with the handling of termination rights and conditions. ONIX separates termination by breach from termination for other reasons (as is conventional in most legal agreements). ERMI separates “Cure period for breach”, but treats termination by breach as a value for a generic “termination right” element group. ERMI then has a single “Notice period for termination”, although there may be an implicit assumption that this applies only for reasons other than breach.

4.2.2 Licensor Indemnity

Lines 26 and 27 show a problem with *Licensor Indemnity*, where ERMI has values *General*, *IP only*, and *Other*. *IP only* can be mapped from ONIX *Licensor Indemnity Against Infringement*, but the

other ERMI values are unclear. Also, ERMI has only a single *Indemnification Clause Note* accompanying separate elements for Licensee and Licensor indemnities.

4.3 ONIX general terms that haveNo equivalent in ERMI

Table 3 shows that some 26 ONIX general terms out of the current set have no direct equivalent in ERMI. Most are unlikely to be of any great consequence for library staff or users.

5. ONIX-PL definitions and other

ERMI elements that need to be mapped from ONIX-PL definitions or other parts of the ONIX expression are: the identities of the parties to the license; the license wording specifying authorized users, and the inclusion or exclusion of distance education students as authorized users; start, end and execution dates; and renewal types. All are entirely straightforward, except to the extent that in an ERMI-based system the parties are represented by local IDs. Deriving a local ID from a name given in an ONIX expression is obviously outside the scope of this mapping.

6. Conclusion

The analysis in this paper confirms what was to be expected, ie that those parts of an ERMI encoding that can be derived directly from a license without further interpretation can almost all be derived from an ONIX-PL expression; and that there are a considerable number of elements in ONIX that ERMI does not handle, though their significance varies widely in terms of delivering information that is needed at the point of use.

There is a general consensus that the most important area is usage permissions and prohibitions. In our view, further work on the delivery of license information to library systems should be concentrated in this area. The ONIX set of usage terms will grow to some extent in the near term, based on further license mappings, but it is hoped that it will become reasonably stable in a matter of months. (For the record, however, ONIX-PL development will continue to cover all license content, not just usages, since there are other reasons why a comprehensive expression will be needed for some purposes.)

More work is needed on how permissions and prohibitions information can best be delivered to staff and users, and to establish what kinds of questions are being asked and are not finding ready answers. It seems axiomatic to us that the set of usage terms should cover those that are “difficult”, not just those basic usages that are almost always permitted; and that the delivery channels to users should also tackle the difficult questions.

Table 1: Supply terms mapping

	ONIX-PL Supply Term Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
1	ArchivalAccess <i>A License Term that specifies whether and/or how a Licensor will provide continuing access to, or an archive copy of, Licensed Content, after termination of a License.</i>	[This ONIX term is a candidate to be removed from the ONIX-PL vocabulary, in favour of separate terms ArchiveCopySupply and PerpetualAccess .]	No equivalent
2	ArchiveCopySupply <i>A License Term that specifies the obligation of a Licensor to provide an archive copy of Licensed Content for the Licensee's use after termination of a License.</i>	ONIX regards archiving right as a supply obligation on the Licensor rather than a Licensee's "right to retain", since the Licensee cannot retain unless the material has been supplied. If the term is present, generate ERMI value Y. If neither this term nor NoArchiveCopySupply is present, generate ERMI value Unspecified. See NoArchiveCopySupply . Where the ONIX term has a Reference Annotation, the annotation text should be mapped to ERMI Archiving Note. ONIX hasNo equivalent for this. It could be included as a specific Annotation Type associated with the ArchiveCopy Supply usage. Is it likely to be specified in a license?	Archiving Right: Y/N/Unspecified <i>The right to permanently retain an electronic copy of the licensed materials.</i> Archiving Note: Text <i>Additional information related to archiving rights, product and format</i> Archiving Format: Text, local values <i>The format of the archival content.</i>
3	ChangesToLicensedContent <i>A License Term that specifies whether and/or how changes may be made to Licensed Content to be supplied during the term of a License.</i>	Not mapped	No equivalent
4	CompletenessOfContent <i>A License Term that specifies that licensed electronic content is at least equivalent to the corresponding printed content.</i>	If the term is present, generate ERMI value Y. If the term is not present, generate ERMI value N.	Completeness Of Content Clause Indicator: Y/N <i>The presence of a provision in the contract stating that the licensed electronic materials shall include all content found in the print equivalent.</i>
5	ComplianceWithAccessibilityStandards <i>A License Term that specifies accessibility standards to be followed in the supply of Licensed Content.</i>	If the term is present, generate ERMI value Y. If the term is not present, generate ERMI value N.	Accessibility Compliance Indicator: Y/N <i>An agreement that the data is provided in a form compliant with relevant accessibility (disabilities) legislation.</i>
6	ComplianceWithOpenURLStandard <i>A License Term that specifies compliance with the OpenURL standard.</i>	Not mapped	No equivalent, although ERMI has an administrative data element to record whether supplied material actually complies with the standard

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	ONIX-PL Supply Term Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
7	ConcurrencyWithPrintVersion <i>A License Term that specifies that the Licensed Content will be available before, or no later than, the print equivalent.</i>	If the term is present, generate ERMI value Y. If the term is not present, generate ERMI value N.	Concurrency With Print Version Clause Indicator: Y/N <i>The presence of a provision in the contract which states that the licensed materials will be available before, or no later than the print equivalent, and/or will be kept current.</i>
8	ContentWarranty <i>A License Term that guarantees a remedy to the licensee if the quantity or quality of material contained within the product is materially diminished.</i>	If the ONIX term is present, the Reference Annotation text should be mapped to ERMI Content Warranty.	Content Warranty: Text <i>A clause that guarantees a remedy to the licensee if the quantity or quality of material contained within the product is materially diminished.</i>
9	MediaWarranty <i>A License Term that specifies a warranty relating to physical media on which delivery is made.</i>	Not mapped	No equivalent
10	NetworkAccess <i>A License Term that specifies the supply of Licensed Content by network access to a Licensor location.</i>	Not mapped	No equivalent
11	NoArchiveCopySupply <i>A License Term that specifies that a Licensor will not provide an archive copy of Licensed Content for the Licensee's use after termination of a License.</i>	ONIX regards archiving right as a supply obligation on the Licensor rather than a Licensee's "right to retain", since the Licensee cannot retain until the material has been supplied. If the term is present, generate ERMI value N. See ArchiveCopySupply .	Archiving Right: Yes / No / Unspecified <i>The right to permanently retain an electronic copy of the licensed materials.</i>
12	NoPerpetualAccess <i>A License Term that specifies that a Licensor will not provide permanent access to Licensed Content for the Licensee's use after termination of a License.</i>	ONIX regards perpetual access as a supply obligation on the Licensor rather than a Licensee's "right to access", since the Licensee cannot access unless the Licensor supplies the service. If the term is present, generate ERMI value N. See PerpetualAccess .	Perpetual Access Right: Yes / No / Unspecified <i>The right to permanently access the licensed materials paid for during the period of the license agreement</i>
13	PerpetualAccess <i>A License Term that specifies the obligation of a Licensor to provide permanent access to Licensed Content for the Licensee's use after termination of a License.</i>	ONIX regards perpetual access as a supply obligation on the Licensor rather than a Licensee's "right to access", since the Licensee cannot access unless the Licensor supplies the service. If the term is present, generate ERMI value Y. If neither this term nor NoPerpetualAccess is present, generate ERMI value Unspecified. See NoPerpetualAccess . Where the ONIX term has a Reference Annotation, the annotation text should be mapped to ERMI Perpetual Access Note.	Perpetual Access Right: Yes / No / Unspecified <i>The right to permanently access the licensed materials paid for during the period of the license agreement</i> Perpetual Access Note: Text <i>Additional information related to perpetual access</i>

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	ONIX-PL Supply Term Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
		ONIX hasNo equivalent for this. It could be included as a specific Annotation Type associated with the PerpetualAccess usage? Is it not equally applicable to ArchivalCopySupply?	Perpetual Access Holdings: Z39.71 <i>The dates of coverage for which perpetual rights are available and agreed upon in the legal contract</i>
14	ProductDocumentation <i>A License Term that specifies conditions relating to the provision of product documentation by the Licensor.</i>	Not mapped	No equivalent
15	PublicationSchedule <i>A License Term that specifies conditions relating to a schedule according to which the Licensor will release Licensed Content. (See also ConcurrencyWithPrintVersion.)</i>	Not mapped	No equivalent
16	ServiceLevel <i>A License Term that states but does not guarantee a level of service.</i>	Not mapped	No equivalent
17	ServiceLevelGuarantee <i>A License Term that guarantees a stated service level.</i>	If the term is present, generate ERMI value Y. If the term is not present, generate ERMI value N.	Performance Warranty Indicator: Y/N <i>Indicates whether a clause that requires a satisfactory level of online availability and/or response time is present</i>
		If the ServiceLevelGuarantee has a SupplyTermQuantity with quantity type = GuaranteedUptime, proximity = IsNotLessThan, and measure unit = Percent, then it may be possible to generate ERMI Performance Warranty Uptime Guarantee, taking into account ReferenceUnit.	Performance Warranty Uptime Guarantee: Text <i>The specific percentage of up-time guaranteed for the product being licensed, and the context for that percentage.</i>
		ONIX hasNo equivalent for this. It might be included in an annotation on the ServiceLevelGuarantee, but there is currently no means of identifying and extracting it. Is it normally part of a license?	Maintenance Window: Text <i>The recurring period of time reserved by the product provider for technical maintenance activities, during which online access may be unavailable.</i>
18	StartOfService <i>A License Term that specifies conditions relating to the start of a service to be supplied under a License.</i>	Not mapped	No equivalent
19	SupplyOfLicensedContent <i>A License Term that specifies general conditions relating to the supply of Licensed Content under a License.</i>	Not mapped	No equivalent

Mapping ONIX-PL to ERMI: usage terms

	ONIX-PL Supply Term Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
20	UsageStatistics <i>A License Term that specifies conditions relating to the provision of usage statistics.</i>	Not mapped	No equivalent, although ERMI handles usage statistics as part of its administrative data
21	UserSupport <i>A License Term that specifies conditions relating to the provision of user support by the Licensor.</i>	Not mapped	No equivalent

Table 2: Usage terms mapping

	ONIX-PL Usage Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
1	<p>AccessBySecureAuthentication <i>Access a digital resource by means of Secure Authentication as defined in a License.</i></p>	Not mapped	No equivalent, although ERMI has an access data element to record the method by which authentication is handled
		Usage may be qualified by Usage Quantity: number of concurrent users. If present, map to ERMI Concurrent Users.	Concurrent Users: number 1. <i>The licensed number of concurrent users for a resource.</i> 2. <i>The number of concurrent users if shared across an interface rather than for a specific resource.</i>
		Usage may be qualified by Usage Quantity: number of pooled concurrent users. If present, map to ERMI Pooled Concurrent Users.	Pooled Concurrent Users: number <i>The number of concurrent users if shared across a consortium rather than within a specific institution.</i>
		An ONIX-PL annotation on the Usage cannot be presumed to refer to concurrent users. However, license wording included as an annotation on AccessBySecureAuthentication could be placed in the ERMI Concurrent User Note, and subsequently edited to remove unwanted content.	Concurrent User Note: text 1. <i>A specific explanation of how users are allocated or shared if pooled or platform based.</i> 2. <i>Additional information about the number of concurrent users.</i>
2	<p>CopyAndDistribute <i>Make and distribute a copy of a resource.</i></p>	Not mapped	No equivalent
3	<p>CopyAndDistributeWithoutRestriction <i>Make and distribute a copy of a resource without any restriction (typical usage: to confirm the right of Authorized Users to network and distribute copies of Licensed Content of which they are the authors).</i></p>	Not mapped	No equivalent
4	<p>CreateLicenseeContentLinks <i>Create links from Licensee content to a resource.</i></p>	ONIX <i>Permitted, Prohibited</i> are mapped to ERMI <i>Permitted explicit, Prohibited explicit</i> . If the usage is not present in ONIX, generate ERMI <i>Silent uninterpreted</i> .	Electronic Link: PPPPSN ¹ <i>The right to link to the licensed material.</i>
		Generate ERMI Electronic Link Term Note in accordance with section 3.3.	Electronic Link Term Note: text <i>Information which qualifies a permissions statement on Electronic Links.</i>

¹ “PPPPSN” is shorthand for the six ERMI values *Permitted explicit, Permitted interpreted, Prohibited explicit, Prohibited interpreted, Silent uninterpreted, Not applicable*.

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	ONIX-PL Usage Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
5	DepositDigitalCopy <i>Deposit a digital copy of a resource in a digital repository.</i>	Not mapped	No equivalent
6	DisplayElectronically <i>Retrieve and display a resource electronically.</i>	Not mapped	No equivalent
7	DisplayOrDistributeExceptAsPermitted (used only as a prohibited usage) <i>Display or distribute a resource by any means except as explicitly permitted in a License.</i>	Not mapped	No equivalent
8	IncludeInPresentation <i>Include a resource in material used for a public presentation.</i>	Not mapped	No equivalent
9	InterLibrarySupplyControlledElectronic <i>Supply a digital copy of a resource to a third-party library by Ariel or similar means whereby the digital copy is destroyed after a single printed copy has been made.</i>	ONIX <i>Permitted, Prohibited</i> are mapped to ERMI <i>Permitted explicit, Prohibited explicit</i> . If the usage is not present in ONIX, generate ERMI <i>Silent uninterpreted</i> .	Interlibrary Loan Secure Electronic Transmission: PPPPSN <i>The right to provide the licensed materials via interlibrary loan by way of secure electronic transmission.</i>
		Generate ERMI Interlibrary Loan Electronic Term Note in accordance with section 3.3.	Interlibrary Loan Electronic Term Note: text Additional information related to interlibrary loan electronic. <i>(Proposed new ERMI element, replacing in part Interlibrary Loan Term Note)</i>
		If a UsageCondition specifying record keeping is present, generate ERMI Yes. If not present, generate ERMI No.	Interlibrary Loan Record Keeping Required Indicator <i>The requirement to keep records of interlibrary loan activity and provide reports to the licensor at periodic intervals or upon request.</i>
10	InterLibrarySupplyElectronic <i>Supply a digital copy of a resource to a third-party library.</i> <i>(It is assumed that usage types 9 and 10 will not both occur in the same license, since 10 includes 9.)</i>	ONIX <i>Permitted, Prohibited</i> are mapped to ERMI <i>Permitted explicit, Prohibited explicit</i> . If the usage is not present in ONIX, generate ERMI <i>Silent uninterpreted</i> .	Interlibrary Loan Electronic: PPPPSN <i>The right to provide the licensed materials via interlibrary loan by way of electronic copies.</i>
		Generate ERMI Interlibrary Loan Electronic Term Note in accordance with section 3.3.	Interlibrary Loan Electronic Term Note: text Additional information related to interlibrary loan electronic. <i>(Proposed new ERMI element, replacing in part Interlibrary Loan Term Note)</i>
		If a UsageCondition specifying record keeping is present, generate ERMI Yes. If not present, generate ERMI No.	Interlibrary Loan Record Keeping Required Indicator <i>The requirement to keep records of interlibrary loan activity and provide reports to the licensor at periodic intervals or upon request.</i>

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	ONIX-PL Usage Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
11	InterLibrarySupplyPrintOrFax <i>Supply a printed or faxed copy of a resource to a third-party library.</i>	ONIX <i>Permitted, Prohibited</i> are mapped to ERMI <i>Permitted explicit, Prohibited explicit</i> . If the usage is not present in ONIX, generate ERMI <i>Silent uninterpreted</i> .	Interlibrary Loan Print Or Fax: PPPPSN <i>The right to provide the licensed materials via interlibrary loan by way of print copies or facsimile transmission.</i>
		Generate ERMI Interlibrary Loan Print Or Fax Term Note in accordance with section 3.3.	Interlibrary Loan Print Or Fax Term Note: text <i>Additional information related to interlibrary loan print or fax.</i> <i>(Proposed new ERMI element, replacing in part Interlibrary Loan Term Note)</i>
		If a UsageCondition specifying record keeping is present, generate ERMI <i>Yes</i> . If not present, generate ERMI <i>No</i> .	Interlibrary Loan Record Keeping Required Indicator <i>The requirement to keep records of interlibrary loan activity and provide reports to the licensor at periodic intervals or upon request.</i>
12	MakeTemporaryDigitalCopy <i>Make a temporary digital copy of all or part of a resource.</i>	Not mapped	No equivalent
13	ModifyExceptAsPermitted <i>Modify a resource except as explicitly permitted in a License.</i>	Not mapped	No equivalent
14	PrintCopy <i>Make a printed copy of a resource.</i>	ONIX <i>Permitted, Prohibited</i> are mapped to ERMI <i>Permitted explicit, Prohibited explicit</i> . If the usage is not present in ONIX, generate ERMI <i>Silent uninterpreted</i> .	Print Copy: PPPPSN <i>The right of the licensee and authorized users to print a portion of the licensed materials.</i>
		Generate ERMI Print Copy Term Note in accordance with section 3.3.	Print Copy Term Note: text <i>Information which qualifies a permissions statement on Print Copy.</i>
15	ProvideIntegratedAccess <i>Provide integrated access to a digital resource together with other digital resources.</i>	Not mapped	No equivalent
16	ProvideIntegratedIndex <i>Provide an integrated index to a digital resource together with other digital resources.</i>	Not mapped	No equivalent
17	RemoveObscureOrModify <i>Remove, obscure or modify a resource.</i>	Not mapped	No equivalent
18	ReproduceInAcademicWork <i>Reproduce a resource in an academic work (ie a work undertaken as part of a course of academic study or research, not for publication).</i>	Not mapped	No equivalent

Mapping ONIX-PL to ERMI: usage terms

	ONIX-PL Usage Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
19	ReproduceInDigitalInstructionalMaterial <i>Reproduce a resource in a digital learning object or course reserve.</i>	ONIX <i>Permitted, Prohibited</i> are mapped to ERMI <i>Permitted explicit, Prohibited explicit</i> . If the usage is not present in ONIX, generate ERMI <i>Silent uninterpreted</i> .	Course Materials Electronic: PPPPSN <i>The right to use licensed materials in collections or compilations of materials assembled in an electronic format by faculty members for use by students in a class for purposes of instruction.</i> <i>(Proposed new ERMI element, replacing Course Reserve Electronic and Course Pack Electronic)</i>
		Generate ERMI Course Materials Electronic Note in accordance with section 3.3.	Course Materials Electronic Note: text <i>Information which qualifies a permissions statement on electronic course materials.</i> <i>(Proposed new ERMI element, replacing in part Course Reserve Term Note and Course Pack Term Note)</i>
20	ReproduceInPrintedCoursePack <i>Reproduce a resource in a printed course pack.</i>	ONIX <i>Permitted, Prohibited</i> are mapped to ERMI <i>Permitted explicit, Prohibited explicit</i> . If neither this usage nor usage 22 is present in ONIX, generate ERMI <i>Silent uninterpreted</i> .	Course Pack Print: PPPPSN <i>The right to use licensed materials in collections or compilations of materials assembled in a print format by faculty members for use by students in a class for purposes of instruction.</i>
		Generate ERMI Course Pack Print Term Note in accordance with section 3.3.	Course Pack Print Term Note <i>Information which qualifies a permissions statement on printed Course Packs.</i> <i>Proposed new ERMI element, replacing in part Course Pack Term Note.</i>
21	ReproduceInPrintedCourseReserve <i>Reproduce a resource in a printed course reserve.</i>	ONIX <i>Permitted, Prohibited</i> are mapped to ERMI <i>Permitted explicit, Prohibited explicit</i> . If neither this usage nor usage 22 is present in ONIX, generate ERMI <i>Silent uninterpreted</i> .	Course Reserve Print: PPPPSN <i>The right to make print copies of the licensed materials and place them in a controlled circulation area of the library for reserve reading in conjunction with specific courses of instruction.</i>
		Generate ERMI Course Reserve Print Term Note in accordance with section 3.3.	Course Reserve Print Term Note <i>Information which qualifies a permissions statement on printed Course Reserves.</i> <i>Proposed new ERMI element, replacing in part Course Reserve Term Note.</i>

Mapping ONIX-PL to ERMI: usage terms

22	<p>ReproduceInPrintedInstructionalMaterial <i>Reproduce a resource in printed material for instructional use (eg course pack or printed reserve collection).</i> <i>This ONIX usage combines both of usages 20 and 21 above.</i></p>	<p>ONIX <i>Permitted, Prohibited</i> are mapped to two ERMI usages with the corresponding values <i>Permitted explicit, Prohibited explicit</i>. If the usage is not present in ONIX, see usages 20 and 21.</p>	<p>Course Pack Print: PPPPSN See usage 20 above for ERMI definition.</p>
		<p>It is not possible by algorithm to generate separate notes for the two ERMI usages. The best option may be to generate a single note and to include it both as ERMI Course Pack Print Term Note and as ERMI Course Reserve Print Term Note.</p>	<p>Course Reserve Print: PPPPSN See usage 21 above for ERMI definition.</p> <p>Course Pack Print Term Note Course Reserve Print Term Note</p>
23	<p>ReproduceInSpecialNeedsInstructionalMaterial <i>Reproduce a resource in instructional material in a form designed for users with special needs (eg Braille, audio).</i></p>	Not mapped	No equivalent
24	<p>SaveDigitalCopy <i>Make and store a digital copy of a resource.</i></p>	<p>ONIX <i>Permitted, Prohibited</i> are mapped to ERMI <i>Permitted explicit, Prohibited explicit</i>. If the usage is not present in ONIX, generate ERMI <i>Silent uninterpreted</i>.</p>	<p>Digitally Copy: PPPPSN <i>The right of the licensee and authorized users to download and digitally copy a portion of the licensed materials.</i></p>
		<p>Generate ERMI Digitally Copy Term Note in accordance with section 3.3.</p>	<p>Digitally Copy Term Note: text <i>Information which qualifies a permissions statement on Digitally Copy.</i></p>
25	<p>Sell <i>Sell or resell a resource.</i></p>	Not mapped	No equivalent
26	<p>SupplyCopy <i>Supply a printed or digital copy of a resource to another party.</i></p>	<p>No direct mapping possible as ERMI has No equivalent usage; but the ERMI term Scholarly Sharing is represented by a combination of this usage type with relevant user, used resource, and usage purpose – see below.</p>	No equivalent
	<p>SupplyCopy with the following elements: User = AuthorizedUser UsedResource = LicensedContentExcerpt UsagePurpose = AcademicPurpose RelatedAgent = ThirdParty, with relator = HasReceivingAgent</p>	<p>ONIX <i>Permitted, Prohibited</i> are mapped to ERMI <i>Permitted explicit, Prohibited explicit</i>. If the usage with these added elements is not present in ONIX, generate ERMI <i>Silent uninterpreted</i>.</p>	<p>Scholarly Sharing: PPPPSN <i>The right of authorized users and/or the licensee to transmit hard copy or an electronic copy of a portion of the licensed materials to a third party for personal, scholarly, educational, scientific or professional use.</i></p>
		<p>Generate ERMI Scholarly Sharing Term Note in accordance with section 3.3.</p>	<p>Scholarly Sharing Term Note: text <i>Information which qualifies a permissions statement on Scholarly Sharing.</i></p>
27	<p>UseForSpecifiedPurpose <i>Use for a purpose specified in a License.</i></p>	Not mapped	No equivalent

Table 3: General terms mapping

	ONIX-PL General Term Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
1	ActionAgainstMisuse <i>A LicenseTerm that specifies conditions relating to action to be taken by a party as a consequence of misuse of LicensedContent.</i>	Not mapped	No equivalent
2	ActionOnTermination <i>A LicenseTerm that specifies action to be taken by a party on termination of a License.</i>	Use the Reference Annotation text (annotation type onixPL: LicenseTextExtract) in the General Term composite to populate the ERMI text element. It there are any other annotations in the General Term element, their text content could be transferred to the ERMI Termination Requirements Note; but in practice this is unlikely to be the case.	Termination Requirements: Text <i>The obligation to take certain actions upon termination of the contract.</i> Termination Requirements Note: Text <i>A clarification of the termination requirements and what certification of the requirement activities is necessary.</i>
3	AllRightsReserved <i>A LicenseTerm that specifies that all intellectual property rights not explicitly granted to the licensee are retained by the licensor.</i>	If the term is present, generate ERMI value Y. If the term is not present, generate ERMI value N.	All Rights Reserved Indicator: Y/N <i>A clause stating that all intellectual property rights not explicitly granted to the licensee are retained by the licensor.</i>
4	Amendment <i>A LicenseTerm that specifies conditions relating to the amendment of the terms of a License.</i>	Not mapped	No equivalent
5	ApplicableCopyrightLaw <i>A License Term that specifies the national copyright law that applies to a License.</i>	Either: Use the Reference Annotation text (annotation type onixPL: LicenseTextExtract) in the General Term composite to populate the ERMI text element with the full licence wording. Or: Use GeneralTermRelatedPlace with relator onixPL:HasPlaceOfCopyrightLaw to insert the name of the country without other text.	Applicable Copyright Law: Text <i>A clause that specifies the national copyright law that is agreed to in the contract.</i>
6	Assignment <i>A LicenseTerm that specifies conditions relating to the assignment or novation of all or part of a License to a ThirdParty.</i>	Not mapped	No equivalent
7	ClaimByThirdParty <i>A LicenseTerm that specifies conditions relating to the handling of any claim by a ThirdParty relating to LicensedContent.</i>	Not mapped	No equivalent

Mapping ONIX-PL to ERMI: general terms

	ONIX-PL General Term Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
8	ClickThroughOverride <i>A License Term that specifies that the terms of a License override the terms of any 'click-through' or similar terms carried on the Licensor's server.</i>	If the term is present, generate ERMI value Y. If the term is not present, generate ERMI value N.	Clickwrap Modification Clause Indicator: Y/N <i>A clause indicating that the negotiated agreement supersedes any click-through, click-wrap, other user agreement, or terms of use residing on the provider's server that might otherwise function as a contract of adhesion.</i>
9	ConfidentialityOfLicenseTerms <i>A LicenseTerm that specifies conditions relating to the confidentiality of the License Terms.</i>	If the term is not present, generate ERMI value No. If the term is present, however, it is not possible to extract ERMI values from the ONIX General Term content without manual intervention.	Confidentiality Of Agreement: No / All / Financial only / All but user terms <i>Presence or absence of clauses that specify or detail restrictions on the sharing of the of terms of the license agreement.</i>
		Use the Reference Annotation text (annotation type onixPL: LicenseTextExtract) in the General Term composite to populate the ERMI text element with the full licence wording.	Confidentiality Of Agreement Note: Text <i>Specific details of what aspects of the license are private.</i>
10	ConfidentialityOfUserData <i>A LicenseTerm that specifies conditions relating to the confidentiality of User data.</i>	If the term is present, generate ERMI value Y. If the term is not present, generate ERMI value N.	Confidentiality Of User Information Indicator: Y/N <i>The requirement that user data should not be shared with third parties, reused or resold without permission.</i>
11	CostRecoveryByLicensee <i>A License Term that specifies conditions relating to cost recovery charges made by a Licensee.</i>	Not mapped	No equivalent
12	DatabaseProtectionOverride <i>A License Term that specifies fair use protections within the context of assertions of database protection or additional proprietary rights related to database content not currently covered by US copyright law.</i>	If the term is present, generate ERMI value Y. If the term is not present, generate ERMI value N.	Database Protection Override Clause Indicator: Y/N <i>A clause that provides fair use protections within the context of assertions of database protection or additional proprietary rights related to database content not currently covered by U.S. copyright law.</i>
13	DisputeResolution <i>A License Term that specifies procedures, short of legal action, to be followed in the event of a dispute between the parties to a License.</i>	Not mapped	No equivalent
14	EntireAgreement <i>A License Term that specifies that a License represents the entire agreement between the parties in respect of the subject of the License.</i>	Not mapped	No equivalent

Mapping ONIX-PL to ERMI: general terms

	ONIX-PL General Term Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
15	ForceMajeure <i>A License Term that specifies conditions that apply in circumstances outside the control of the parties to a License.</i>	Not mapped	No equivalent
16	FundingContingency <i>A License Term that specifies conditions relating to a funding contingency arising in a Licensee organization.</i>	Not mapped	No equivalent
17	GoverningJurisdiction <i>A License Term that specifies the governing jurisdiction that applies to a License.</i>	Either: Use the Reference Annotation text (annotation type onixPL: LicenseTextExtract) in the General Term composite to populate the ERMI text element with the full licence wording. Or: Use GeneralTermRelatedPlace with relator onixPL:HasPlaceOfJurisdiction to insert the name of the jurisdiction without other text.	Governing Jurisdiction: Text <i>The venue or jurisdiction to be used in the event of an alleged breach of the agreement.</i>
18	GoverningLaw <i>A License Term that specifies the governing law that applies to a License.</i>	Either: Use the Reference Annotation text (annotation type onixPL: LicenseTextExtract) in the General Term composite to populate the ERMI text element with the full licence wording. Or: Use GeneralTermRelatedPlace with relator onixPL:HasPlaceOfGoverningLaw to insert the name of the country or state without other text.	Governing Law: Text <i>A clause specifying the governing law to be used in the event of an alleged breach of the agreement.</i>
19	IndemnityAgainstBreach <i>A License Term that specifies indemnities offered by either party against breach of terms contained in a License.</i>	Not mapped	No equivalent
20	IntellectualPropertyRights <i>A License Term that specifies conditions relating to copyright, database right or other intellectual property rights.</i>	Not mapped	No equivalent
21	LicenseeIndemnity <i>A License Term by which a Licensee indemnifies a Licensor against third party claims.</i>	If the term is present, generate ERMI value Y. If the term is not present, generate ERMI value N.	Indemnification By Licensee Clause Indicator: Y/N <i>A clause by which the licensor agrees to indemnify the licensee against a legal claim.</i>
22	LicenseeTerminationRight	Not mapped at present: see paragraph 4.2.1 in the introductory text.	Licensee Termination Right Indicator: Y/N <i>The ability of the licensee to terminate an acquisition during a contract period.</i> Licensee Termination Condition: At will / breach / other <i>The conditions that would allow a licensee to terminate an acquisition during a contract period.</i>

Mapping ONIX-PL to ERMI: general terms

	ONIX-PL General Term Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
			<p>Licensee Notice Period For Termination: Numeric <i>The amount of advance notice required prior to contract termination by the licensee.</i></p> <p>Licensee Notice Period For Termination Unit Of Measure: Text <i>The time interval in which the Licensee Notice Period for Termination is measured.</i></p> <p>Termination Right Note: Text <i>Additional information necessary to amplify any specifications of termination rights.</i></p>
23	<p>LicenseeRightsAfterTermination <i>A License Term that specifies rights that remain with a Licensee after termination of a license.</i></p>	Not mapped	No equivalent
24	<p>LicenseTerminationByBreach <i>A LicenseTerm that specifies conditions relating to the termination of a License by reason of breach by one of the parties.</i></p>	<p>Use value from GeneralTermQuantity with quantity type = onixPL:PeriodForCureOfBreach.</p> <p>Use Measure Unit from GeneralTermQuantity as above.</p>	<p>Cure Period For Breach: Numeric</p> <p>Cure Period For Breach Unit Of Measure: Calendar day / Business day / Week</p>
25	<p>LicenseeWarranty <i>A License Term that specifies a warranty given by a Licensee, typically that it has the necessary rights to enter into an agreement.</i></p>	Not mapped	No equivalent
26	<p>LicensorIndemnity <i>A License Term by which a Licensor indemnifies a Licensee against third party claims.</i></p>	Not mapped at present: see paragraph 4.2.2 in the introductory text.	<p>Indemnification By Licensor Clause: General / Other <i>A clause by which the licensor agrees to indemnify the licensee against a legal claim.</i></p> <p>Indemnification Clause Note: Text <i>Additional information providing amplification of any nuances to the indemnification clauses.</i></p>
27	<p>LicensorIndemnityAgainstInfringement <i>A License Term by which a Licensor indemnifies a Licensee against claims that LicensedContent infringes the intellectual property rights of a third party.</i></p>	Not mapped at present: see paragraph 4.2.2 in the introductory text.	<p>Indemnification By Licensor Clause: IP <i>A clause by which the licensor agrees to indemnify the licensee against a legal claim.</i></p> <p>Indemnification Clause Note: Text <i>Additional information providing amplification of any nuances to the indemnification clauses.</i></p>

Mapping ONIX-PL to ERMI: general terms

	ONIX-PL General Term Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
28	LicensorIntellectualPropertyWarranty <i>A License Term by which a Licensor warrants that it holds all intellectual property rights required in order to grant a License.</i>	If the term is present, generate ERMI value Y. If the term is not present, generate ERMI value N.	Intellectual Property Warranty Indicator: Y/N <i>A clause in which the licensor warrants that making the licensed materials available does not infringe upon the intellectual property rights of any third parties</i>
29	LicensorTerminationRight	Not mapped at present: see paragraph 4.2.1 in the introductory text.	Licensor Termination Right Indicator: Y/N <i>The ability of the licensor to terminate an acquisition during a contract period.</i> Licensor Termination Condition: At will / breach / other <i>The conditions that would allow a licensor to terminate an acquisition during a contract period.</i> Licensor Notice Period For Termination: Numeric <i>The amount of advance notice required prior to contract termination by the licensor.</i> Licensor Notice Period For Termination Unit Of Measure: Text <i>The time interval in which the Licensor Notice Period for Termination is measured.</i> Termination Right Note: Text <i>Additional information necessary to amplify any specifications of termination rights.</i>
30	LicensorWarrantyDisclaimer <i>A License Term by which a Licensor disclaims warranties in connection with a License.</i>	Not mapped	No equivalent
31	LimitationOfLiability <i>A LicenseTerm that specifies a limitation of a party's liability under a License.</i>	Not mapped	No equivalent
32	NonEnforceability <i>A License Term that specifies that the non-enforceability of any part of a License shall not invalidate the rest of the License.</i>	Not mapped	No equivalent
33	NoticeProcedure <i>A License Term that specifies the procedure by which notices must be served under a License.</i>	Use the Reference Annotation text (annotation type onixPL: LicenseTextExtract) in the General Term composite to populate the ERMI text element with the full licence wording.	License Delivery Instruction: Text <i>The required medium in which official communications must be delivered</i>

Mapping ONIX-PL to ERMI: general terms

	ONIX-PL General Term Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
34	NotificationOfLicenseeIPAddresses <i>A LicenseTerm that specifies a Licensee's obligation to notify IP addresses to be used by the Licensor to authenticate AuthorizedUsers.</i>	Not mapped	No equivalent
35	NotificationOfMisuse <i>A LicenseTerm that specifies conditions relating to the notification of any misuse of LicensedContent of which a party becomes aware.</i>	Not mapped	No equivalent
36	NotificationOfTermsToAuthorizedUsers <i>A LicenseTerm that specifies conditions relating to the provision of information to AuthorizedUsers about the applicable terms of a License.</i>	Not mapped	No equivalent
37	NoWaiver <i>A License Term that specifies that the failure by a party to enforce any part of a License shall not constitute a waiver of any other part.</i>	Not mapped	No equivalent
38	PreventionOfUnauthorizedUse <i>A License Term that specifies conditions relating to the prevention of unauthorized use of Licensed Content.</i>	Not mapped	No equivalent
39	RenewalAutomatic	[This ONIX term is a candidate to be removed from the ONIX-PL vocabulary, replaced by use of LicenseGrantType and Renewal Conditions below.]	
40	RenewalConditions <i>A License Term that specifies conditions relating to the renewal of a License.</i>	When LicenseGrantType = onixPL:RenewalAutomatic . See Table 4, line 9.	
		Use value from GeneralTermQuantity with quantity type = onixPL:NoticePeriodForNonRenewal .	Non-Renewal Notice Period: Numeric
		Use Measure Unit from GeneralTermQuantity as above.	Non-Renewal Notice Period Unit of Measure: Text
41	RenewalExplicit	[This ONIX term is a candidate to be removed from the ONIX-PL vocabulary, replaced by use of LicenseGrantType and Renewal Conditions above.]	
42	SecurityProtocols <i>A License Term that specifies conditions relating to the implementation of security and authentication protocols.</i>	Not mapped	No equivalent

Mapping ONIX-PL to ERMI: general terms

	ONIX-PL General Term Type and definition	ONIX-PL content and proposed mapping	ERMI element and definition
43	StatutoryRightsAffirmation <i>A License Term that affirms that a License does not detract from a Licensee's statutory rights under applicable copyright law.</i>	If the term is present, generate ERMI value Y. If the term is not present, generate ERMI value N.	Fair Use Clause Indicator: Y/N <i>A clause that affirms statutory fair use rights under U.S. copyright law (17 USC Section 107), or that the agreement does not restrict or abrogate the rights of the licensee or its user community under copyright law.</i>
44	TermsSurvivingTermination <i>A License Term that specifies those other terms of a License that will survive termination.</i>	Not mapped	No equivalent
45	UCITAOVERRIDE <i>A License Term that specifies the licensor's agreement to use US state contract law in the event UCITA is ever passed and implemented in the specified governing law state.</i>	If the term is present, generate ERMI value Y. If the term is not present, generate ERMI value N.	UCITA Override Clause Indicator: Y/N <i>A clause that reflects the licensor's agreement to use U.S. state contract law in the event UCITA is ever passed and implemented in the specified governing law state.</i>
46	UseOfDRMTechnology <i>A LicenseTerm that specifies conditions relating to the use of Digital Rights Management technology.</i>	Not mapped	No equivalent
47	UseOfDigitalWatermarking <i>A LicenseTerm that specifies conditions relating to the use of Digital Watermarking.</i>	Not mapped	No equivalent
48	UserFeedback <i>A LicenseTerm that specifies conditions relating to feedback from Users of Licensed Content.</i>	Not mapped	No equivalent
	No ONIX equivalent		Terms Note: Text <i>Notes about the terms as a whole.</i>

Table 4: Definitions and other

	ONIX-PL Element	ONIX-PL content and proposed mapping	ERMI element and definition
1	AgentDefinition with label AuthorizedUser	Use the Reference Annotation text (annotation type onixPL: LicenseTextExtract) in the AgentDefinition to populate the ERMI text element.	Authorized User Definition: Text <i>The language in the contract that defines the group of users allowed to use the Electronic Product.</i>
		This ERMI element cannot be derived from license content: it depends on local knowledge.	Local Authorized User Definition: Y/N <i>The inclusion of an institution-specific preferred authorized user definition.</i>
2	AgentDefinition with label AuthorizedUser <i>ONIX does not regard distance education as a “usage”, but as an extension of the community of authorized users to include distance learning students.</i>	If the ONIX definition of AuthorizedUser includes distance learning students, generate ERMI term Distance Education with value <i>Permitted explicit</i> . If the ONIX definition of AuthorizedUser explicitly excludes distance learning students, generate ERMI term Distance Education with value <i>Prohibited explicit</i> . Otherwise, generate ERMI term Distance Education with value <i>Silent uninterpreted</i> .	Distance Education: PPPPSN <i>The right to use licensed materials in distance education.</i>
		Generation of an ERMI Distance Education Term Note would in principle require examination of all usage terms to verify whether the user in each case includes or excludes distance learning students.	Distance Education Term Note: text <i>Information which qualifies a permissions statement on Distance Education.</i>
3	LicenseRelatedAgent with relator onixPL: HasLicensee	Use the Name element in the AgentDefinition linked to this instance of LicenseRelatedAgent. Matching the name to the ID that is used in the local ERMI-based system is outside the scope of this mapping.	Licensee: ID <i>1. One to whom a license is granted. 2. The legal party who signs or otherwise assents to the license.</i>
4	LicenseRelatedAgent with relator onixPL: HasLicensingAgent	Use the Name element in the AgentDefinition linked to this instance of LicenseRelatedAgent. Matching the name to the ID that is used in the local ERMI-based system is outside the scope of this mapping.	Licensing Agent: ID <i>An organization (such as a subscription agent) or an individual that facilitates a licensing transaction on behalf of one or more parties.</i>
5	LicenseRelatedAgent with relator onixPL: HasLicensor	Use the Name element in the AgentDefinition linked to this instance of LicenseRelatedAgent. Matching the name to the ID that is used in the local ERMI-based system is outside the scope of this mapping.	Licensor: ID <i>1. One who grants a license to another. 2. The party who formulates the terms and conditions of use for the product with whom the licensee (purchaser) is bound in contract by signing or otherwise assenting to a license agreement.</i>
6	LicenseRelatedTimePoint with relator onixPL: HasLicenseEndDate	Use the TimePointIdentifier (normally a YYYYMMDD date) from the TimePointDefinition linked to this instance of LicenseRelatedTimePoint.	License Execution Date <i>The date on which the license was signed or otherwise agreed to by the licensee.</i>

Mapping ONIX-PL to ERM: general terms

	ONIX-PL Element	ONIX-PL content and proposed mapping	ERMI element and definition
7	LicenseRelatedTimePoint with relator onixPL:HasLicenseExecutionDate	Use the TimePointIdentifier (normally a YYYYMMDD date) from the TimePointDefinition linked to this instance of LicenseRelatedTimePoint.	License End Date <i>The date on which a license agreement terminates.</i>
8	LicenseRelatedTimePoint with relator onixPL:HasLicenseStartDate	Use the TimePointIdentifier (normally a YYYYMMDD date) from the TimePointDefinition linked to this instance of LicenseRelatedTimePoint.	License Start Date <i>The date on which a license agreement goes into effect .</i>
9	LicenseGrantType	Map values onixPL:Perpetual , onixPL:NonRenewable , onixPL:RenewalAutomatic , onixPL:RenewalExplicit to ERM equivalents	RenewalType: Automatic / Explicit / Perpetual / NonRenewable (proposed new ERM value)