Matched Requirements

Revision history

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10047 DRM shall allow for distribution and management of free digital objects with the same level of management as fee digital objects. [1]			10397 The REL shall support free access to digital objects.	DRM shall allow for distribution and management of free digital objects.
10048 DRM shall enable expression and enforcement of rights and rules which may vary depending on the number of copies sold of a given digital object. [5]		10265 Tiered Models The REL shall support specifying conditions (such as different pricing levels) based on the quantity of a work requested. Example: Pay $10 for each copy up to 10 copies, and $8 for each copy over 10 copies.	10397.6 The REL shall support discounting schemes (e.g., discounting applied once tiered volumes are purchased).	The REL shall support specifying conditions (such as different pricing levels) based on the number of copies of a work requested.
		10265.1 Tiered Models The REL shall support specifying conditions (such as different pricing levels) based on the quality of different versions of a same work offered.		
10048.1			10312	DRM shall enable

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DRM shall enable expression and enforcement of rights and rules which may vary depending on the order of navigation through a collection of digital objects that combine to comprise a larger digital object. [5]			Where rights expressions can be applied at various levels within a nested data structure, well-defined syntax shall exist to specify which rights apply to data at various points within the hierarchy. Where conflicts arise, policies would need to be specified in the rights expression to resolve them.	expression and enforcement of rights and rules which may vary according to the relationships between and/or navigation through a collection of digital objects that combine to comprise a larger digital object.
10048.2 DRM shall enable expression and enforcement of rights and rules which may vary depending on the usage time of a given digital object. [5]		10265.2 Tiered Models The REL shall support specifying conditions (such as different pricing levels) based on the the length of time to use a work.	[10354]	The REL shall support specifying conditions (such as different pricing levels) based on the length of time to use a work.
10050 DRM shall support the expression and enforcement of rights and rules associated with digital objects on a pay per use basis in an online setting. [3]		10266 Pay Per View or Use The REL shall support specifying a simple fee charged every time that a right is exercised.	10397.1 The REL shall support Pay-Per-Interaction.	DRM shall support payment of a fee for each use of a digital object either online or offline.
10050.1 DRM shall support the expression and enforcement of rights and rules associated with digital objects on a pay per use basis in an offline setting. [3]				
			10397.3 The REL shall support Pay-per-Interaction up to a limit and then switch to free access for allowed Interactions ("rent-to-own").	
10051 DRM shall support the aggregation of content into any combination of digital objects and to enforce the rights and rules associated with	10114 DRM shall allow and protect digital objects that include content in a variety of media, including sound, animation, and video.	10231 The REL shall provide mechanisms to specify composite Digital Objects as well as component parts of the composite Digital	10370 Data streams are to be treated as Digital Objects in their own right.	DRM shall support a combination of Digital Objects where the Digital Objects can be of different media types, including sound, animation, video and

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any and/or all of their combinations. [1]		Object.		electronic text. Digital rights and rules can be applied and enforced for the entire set of objects and/or for specific objects within the set.
10052 DRM shall support changing between pricing models that are allowed by the rights and rules enforced. (If a need arises later for switching between usage rules, more discussion is necessary.) [3]				
10052.1 DRM shall support controlled access to content on a subscription basis. [1]		10267 The REL shall support specifying subscription-based pricing.		Subscription DRM shall support subscription-based pricing and access to content.
			10397.4 The REL shall support the consumer's payment of a minimum up-front charge on a subscription basis. The subscription expires when either a time limit expires or a permitted number of uses or amount of usage time is exceeded. Subsequent uses incur separate per-use charges.	

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10053 DRM shall support enforcement of rights and rules associated with digital objects based on locale, region, or territory. [1]	[EMEA] 10456 DRM systems shall be able to identify territory with respect to copyright jurisdictions in order to support the legitimate interests of copyright owners.	10252 The REL shall support industry standard mechanisms to reference territory information in order to • support limiting rights to certain physical regions, areas and locations. • support to restricting rights to certain digital domains, (sub-)networks and systems	10400 It shall be possible to specify predicate expressions in geographic terms according to any established taxonomy of geography.	Territory Based Conditions The REL shall support industry standard mechanisms to reference physical regions, areas and locations as well as digital domains, networks and systems.
		10268 The REL shall support specifying territory information to enable regional pricing, and to offer publishers control over where Digital Object can be purchased.	10401 The REL shall allow for the specification of acceptable methods for determining the geographic location of a user.	
10055 DRM shall support the combining of different pricing options for rights and rules associated with digital objects.				

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10056 DRM shall support time-based rights and rules.[2]		10246 The REL shall provide mechanisms to specify time periods over which rights are granted in order to express time limits that govern when rights become available and when they cease to be available, express the categories of time blocks that are useful for governing commercial and non-commercial use of digital works, describe contiguous periods of time, periods of time that do not start until a work is first used, accumulative amounts of time that need not be contiguous, and recurring time intervals that a work can be used repeatedly in a regular fashion, provide unambiguous specifications suitable for international commerce and use across time zones. The REL shall support the following time specifications: Fixed intervals, sliding intervals, metered intervals	10341 By default all Rights and Obligations expressions shall persist indefinitely. However, it shall be possible for Rights and Obligations to be given bounded lifetimes, where required, beyond which the rules are no longer applicable. Such specifications should be possible at the macro level such that they apply to all Rights and Obligations clauses contained within a set. 10399 Rights and Obligations may change according to the current time of day. This shall be expressible in the REL.	Time Based Conditions The REL shall support unambiguous specifications of time to allow for commerce across time zones and rights expression based on time specifications such as specific times, fixed intervals, sliding intervals and metered intervals.
10056.1 DRM shall support time-based pricing rules for digital objects.[2]				
10057 DRM shall support metered pricing.			[10354]	
10060 DRM shall allow for the bundling of digital objects (for pricing or rights purposes) independent of the delivery method or time frame. [1]			10324 The REL shall allow rules to be defined around data classes and content attributes in such a manner that, where appropriate, the rules can be made independent of the	DRM shall allow for the bundling of digital objects (for pricing or rights purposes) independent of the channel, delivery method, or time frame.

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			channel or mode of delivery of the content.	
10061 DRM shall support expression and enforcement of rights and rules on a user grouping basis, where individual user rights may differ from those granted to a group of users. [2]	[CNI] 10466 DRM shall support permissions based on group membership.		10418 The REL shall allow for Rights and Obligations expressions to be written and evaluated with respect to roles, department structures, categories of users, and other attributes of members within an organisation.	DRM shall support rights expressions for different individual users or for different groups of users. Individual user rights may differ from those granted to a group of users.
		10270 The REL shall support user-based pricing levels for different individual users or for different groups of users.		
			10397.5 The REL shall support sponsored charging models (where charges are applied to a different organisational unit than that causing the charge).	
10062 DRM shall support the expression and enforcement of rights and rules associated with the capabilities of specific reading systems. [3] [Note: see 10077]			10407 It shall be possible within the REL to nominate applications to be used for interacting with a Digital Object. For example, only the official Adobe Acrobat Reader is allowed to render this PDF file.	DRM shall support the expression and enforcement of rights and rules associated with the capabilities of specific reading systems or other applications.
10065 DRM shall allow consumers to obtain additional rights for a digital object for which they already have certain rights either individually or through a group association.[2]			10348 Provision shall be made in the REL to specify in rights expressions how rights may be obtained through such mechanisms as licence purchase via an e-commerce site. The provision should also allow for the context to determine the location of the source of rights and the terms and conditions of supply.	DRM shall allow consumers to obtain additional rights for a digital object for which they already have certain rights (or none at all) either individually or through a group association. Support shall be provided in the REL for specifying how licences are thus obtained, with additional support for context-based variations.
10065.1 DRM shall provide	10120 DRM shall provide		10363 It shall be possible to	Accounting Information Collection

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means for rights holders to obtain payment related information.[1]	means for distributors and sellers to account to publishers for sales of digital objects.		specify in the REL the required levels of financial reporting on downstream value chain participants.	DRM shall support collection of accounting information throughout the value chain for commercial and non-commercial distribution.
10065.2 DRM shall allow for the expression and enforcement of payment rules for digital objects. For example – payment shall be made to rights holders within 30 days.[1]			10373 The REL shall make provision for rules specifying when particular actions must be completed.	The REL shall make provision for rules specifying when particular actions must be completed. For example – payment shall be made to rights holders within 30 days.
10066 DRM shall support adding and changing rights and rules at any time. [1] [Note: see 10065]		10245 The REL shall provide mechanisms to express how rights expressions (including conditions and obligations) can be changed over time and how rights expressions (including conditions and obligations) can be changed or modified in other rights expressions derived from them. Rights change should be under control of the original rightsholder or a designated agent and would include the ability to designate authorized parties for alteration and referral of or to information contained in a rights expression.	10343 Support shall be given for mechanisms by which Rights and Obligations may be updated during their lifetime.	Changing or Adding Rights The REL shall provide mechanisms that express under what conditions rights expressions can be altered or augmented. EXAMPLES: 1) Rightsholder may want to change price. 2) Retailer needs to add markup to Distributor's price. 3) Consumer may want to buy additional rights to Digital Object.
10067 DRM shall allow for the lending of digital objects among individuals. If an individual lends a digital object to another individual, he or she shall be unable to access the digital object. Lending shall not require that the digital object actually transfer to the new recipient.[2]	10138 DRM shall allow end users to lend digital objects to other end users.	[CMU Library] 10425 DRM shall allow purchasers of digital objects to loan them (single-user loan, analogous to printed books), without paying a fee to the copyright holder or breaking any laws. [first sale principle]	10239 The REL shall provide mechanisms to express transport rights in order to distinguish between rights for moving works, describe controlled loaning of works, support a range of distribution models (including superdistribution, and enable the specification of how rights change on new copies of works.	DRM shall allow an end user who has purchased a digital object to lend it to another end user. During the period of the loan, the lender shall not have access to the digital object.

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			[Jonathan Hahn] 10040 DRM shall allow an end user to lend a publication to a friend. The lender will not have access during the period of the loan.	
10069 DRM shall support the giving of digital objects. When an individual gives a digital object he or she relinquishes all rights to access and/or use the digital object. [2]	10138 DRM shall allow end users to give digital objects to other end users.	See 10239		DRM shall allow an end user who has acquired a digital object to give it to another end user. The giver shall relinquish all rights to access and use of the digital object.
10070 DRM shall allow users to distribute digital objects controlled by DRM, whereby recipients will be able to purchase the full set or a subset of the original rights associated with the digital object, irrespective of the reading device being used.[1]	10124 DRM shall accommodate superdistribution of digital objects.	10275 The REL shall support superdistribution of Digital Objects in terms of associating same or different sets of rights, conditions, and obligations for the superdistributed Digital Objects.		DRM shall support Superdistribution to enable recipients of Digital Objects to purchase or legally obtain a license for the object. The license can be for any set of rights that the content owner chooses to grant.
10071 DRM shall support the delegation and enforcement of rights and rules associated with digital objects. [1]	10126 DRM shall provide means for publishers to give distributors and sellers the right to sell digital objects to sellers, libraries, and end users.			DRM shall support the delegation and enforcement of rights and rules associated with digital objects. For example, DRM will provide means for publishers to give distributors and sellers the right to sell digital objects to sellers, libraries, and end users.
10071.1 DRM shall support the enforcement of limits associated with delegation of rights, where a third party could only grant rights to individuals according to limits established by				

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the rights holder during the initial acquisition of the digital object by that third party. [1]				
10072 DRM shall support the ability to make copies of the digital object. DRM shall allow the rights holder to establish rules that are specific to copies made. [1]				
10073 DRM shall allow the rights holder to control whether a digital object can be combined in any with other digital objects. [1]			10381 The REL shall include expressions to define terms and conditions (Rights and Obligations) for a third party aggregating content within a larger content offering.	DRM shall allow the rights holder to control whether a digital object can be combined in any way (for example, by a third party content aggregator) with and into other digital objects.
10075 DRM shall allow the rights holder to control whether derivative works can be created from a digital object. [1]		10241 The REL shall provide mechanisms to express derivative work rights in order to make it possible for the rights owner to pre-arrange fees and conditions governing subsequent use of the material in derivative works, to express whether communication for notification or authorization is required before a derivative work right can be exercised, to ensure that all information about authorship, identity, Digital Objects, and rights is controlled or preserved in the derivative work, enable a rights owner to determine whether derivative works can incorporate selected portions of a work, or whether the original work must be incorporated in total.	10319 It shall be possible within the REL to describe limitations on how (meta)data may be derived from a Digital Object and to describe a set of maximal rights and minimal obligations that can be expressed about derived data by the party creating it.	Derivative Rights The REL shall provide mechanisms to allow the rights holder to control whether and how derivative works can be created from a digital object.
10076 DRM shall allow the		10240 The REL shall provide		Print Rights The REL shall provide

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expression and enforcement of rights and rules that control whether the digital object can be printed in whole or in part. [1]		mechanisms to express render rights in order to distinguish between rights for displaying content and rights for making long-lasting copies such as printouts; provide a means of distinguishing different kinds of viewers, players and printers for digital works ; and provide a controlled means for creating unencumbered digital copies outside of a trusted system.		mechanisms to express print rights relative to all or a portion of the digital object.
10077 DRM shall support the expression and enforcement of rights and rules associated with the capabilities of specific printing devices. [Note: see 10062]		See 10240		
		10240.1 Display Rights The REL shall provide mechanisms to express display rights relative to all or a portion of the digital object.		
10078 DRM shall allow rights holders to control whether or not authorized users can make unprotected/unmanaged copies of originally protected/managed digital objects.		See 10240		
10079 DRM shall allow the creation and granting of subordinate rights to the ones originally associated with a digital object. [Note: see 10066 and 10071]				
10083 DRM shall enable	10144 DRM shall ensure that	10233 The REL shall provide	10412 The REL shall support	DRM shall ensure that digital objects are not

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consumers to determine the authenticity of the digital object. [1]	digital objects are not tampered with or modified after they are published.	mechanisms to reference authentication schemes. These mechanisms help ensure integrity of Digital Objects and detect whether the Digital Objects have been altered in an unauthorized manner.	the definition of constraints for downstream handling of Digital Objects in order to preserve the integrity of the Digital Objects. For example: ▪ Use of tamper-resistant distribution channels. ▪ Use of mechanisms by which consumers can verify the integrity of Digital Objects.	tampered with or altered after they are published, except insofar as the rights holder allows modification.
10084 DRM shall allow consumers to create backups of digital objects which have rights and rules enforced by the DRM. Each backup copy shall itself be controlled by the same rights and rules which pertain to the original digital object. [3]	10140 DRM shall allow end users to archive (back up) digital objects.			DRM shall allow consumers to create backups of digital objects which have rights and rules enforced by the DRM. Each backup copy shall itself be controlled by the same rights and rules which pertain to the original digital object.
10085 DRM shall support the right to delete a digital object.			10387 The REL shall provide the facility to describe rules about deleting Digital Objects in an unlimited variety of contexts and circumstances. The rules shall extend to the manner of destruction of the Object, which will include such requirements as caching a deleted Object within a retrieval area until a condition is met (timeout, flushing of the cache, etc).	DRM shall support the right to delete a digital object. The rules shall extend to the manner of destruction of the Object, which will include such requirements as caching a deleted Object within a retrieval area until a condition is met (timeout, flushing of the cache, etc).
10086 DRM shall allow consumers to restore backup copies of digital objects which have rights and rules enforced by the DRM. Each				

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restored backup copy shall itself be controlled by the same rights and rules which pertain to the original digital object. [3]				
10087 DRM shall allow expression of rules and policies that would enable consumers to move digital objects across multiple reading systems. [1] 10087.1 DRM shall allow expression of rights and rules that may come in effect when a digital object is moved from one reading system to another. [1]	[CMU Library] 10421.1 DRM shall permit the borrower of a digital object from a library to transfer a copy of the digital object to another reading system on any devices that the borrower owns. Transfer may require converting the digital object to another format interoperable with the user's device.	[CMU Library] 10425.1 DRM shall permit purchasers of digital objects to convert them to other formats for use with different devices, without paying a fee to the copyright holder or breaking any laws. [first sale principle]	[Richard Mahaffey] 10445 DRM shall permit end users to transfer digital objects to and view them on any reading devices and computers that the user owns.	DRM shall allow an end user to transfer a digital object to any reading system that the user owns and exercise all rights granted to the user on any such reading system. DRM shall allow any conversion of the digital object's content format that is necessary to transfer the digital object to and exercise rights on another reading system that the user owns.
10089 DRM shall support industry standard encryption algorithms which can be selected from when specifying the rights and rules pertaining to a digital object. [1]	10149 DRM shall neither prescribe nor preclude any particular algorithm for encryption of the content of digital objects.			DRM shall support specifying encryption algorithms for the encryption of Digital Objects. DRM shall not require specific algorithm(s), nor shall it preclude any particular algorithm.
10089.1 DRM shall support determination of key length as part of defining rights and rules associated with a digital object. [1]	[Note: see 10158]			
10091 DRM shall support multiple identification systems for digital objects when associating rights and rules with those digital objects. [1]	10159.1 Metadata for a digital object in the DRM context shall include one or more standard identifiers (such as ISBN or DOI).	10229 The REL shall support uniform, flexible and interoperable mechanisms to identify Digital Objects and their types at a global scope according to international identification systems or schemes.	10329 Provision shall be made for Digital Objects to be identified via any suitable identification scheme.	DRM shall use standard identifiers (such as ISBN and DOI) for digital objects.

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10092 DRM shall support enforcement of rights and rules associated with metadata pertaining to digital objects where parts or all of that metadata may be controlled by DRM. [1]		10230 DRM shall provide mechanisms to reference Digital Object metadata as part of the REL, make reference to external content metadata, and include existing content metadata.		DRM shall provide mechanisms to reference metadata as part of the REL, make reference to external content metadata and include existing content metadata. It shall support the enforcement of metadata where all or part of the metadata may be controlled by DRM.
10092.1 DRM shall support verification of authenticity of parts or all of metadata associated with a digital object.				
10092.2 DRM shall protect the integrity of parts or all of metadata associated with a digital object.				
10094 DRM shall support expression and enforcement of rights and rules independently from the binary format of the digital object, where rights and rules would apply to any given delivery format of that digital object. [1]	10134 DRM shall allow a reading system to access electronic publications from any publisher, regardless of content format. 10147 DRM shall protect digital objects regardless of their content format. 10148 DRM shall protect digital objects regardless of their container file format.			DRM shall protect digital objects and allow reading systems to access digital objects regardless of their content format.
10097 DRM shall support offline enforcement of rights and rules associated with digital objects.[1]				
10097.1 DRM shall support acquisition of rights to a digital object while offline with asynchronous clearance			See 10348	

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of that transaction. [5]				
10098 DRM shall support the delegation of perpetual rights associated with a digital object to a consumer. [1]			See 10397	
10099 DRM shall be capable of collecting usage metrics. 10099.1 DRM shall support reporting of anonymous usage and market information.	10122 DRM shall provide means for publishers to collect data on characteristics of purchasers of digital objects.	10258 The REL shall provide mechanisms to express how Digital Object usage should be tracked in order to • record usage history for granting rights in future time. • identify one or more tracking agencies and systems for keeping tracking information. • express what information needed (and need not) to be tracked. • specify how often tracking has to happen. • specify what granulates tracking is based on. • support generation of reports for survey and business purposes.	10362 It shall be possible to specify in the REL the required levels of usage reporting on data supplied downstream within a value-chain. [Jonathan Hahn] 10042 Authors (and other "creators") shall have a way of contacting their fans.	Usage / Consumption Tracking The REL shall provide the mechanisms to express the requirement for usage tracking and the conditions that apply. DRM shall enforce the collection of usage metrics throughout a value chain.
10100 DRM shall allow consumers to control dissemination of their private information where it pertains to the acquisition of rights and rules associated with a digital object.	10142 DRM shall protect the privacy of records of end users' purchasing and borrowing of digital objects.		10413 The REL shall include hooks to make reference to privacy specification protocols such as P3P wherever possible.	DRM shall protect the privacy of end users. It shall allow the end user to control the dissemination of his private information and include hooks to make reference to privacy specification protocols such as P3P wherever possible.
10100.1	[CNI]			DRM shall allow end

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DRM shall allow consumers to access the rights and rules associated with a digital object.	10463 DRM shall allow end users to access the rights and rules associated with a digital object.			users to access the rights and rules associated with a digital object.
10102 DRM shall support acquisition of rights and rules associated with digital objects where the consumer's identity is not known beyond the need for clearing the transaction. [3]	10157 DRM shall not require information that identifies end users.			DRM shall support acquisition of rights and rules associated with digital objects where the consumer's identity is not required.
	10110 DRM shall provide means for the sender and receiver of a digital object, regardless of their technology providers, to interoperate with each other.	10205 The REL shall provide interoperability for the management and protection of rights associated with Digital Objects across DRM systems.		DRM shall support the transfer of a digital object and its associated rights between components made by different technology providers.
[Jonathan Hahn] 10026 Components shall have levels of trust quantified in an understandable manner.	10111 DRM shall have a trust architecture that enables components to authenticate and determine the level of protection offered by other components.	10234 The REL shall support mechanisms to indicate types and levels of protection of Digital Objects that rights expressions are associated with. These mechanisms shall help ensure confidentiality of Digital Objects, preventing unauthorized access and use, and assisting authorized access and use without adversely affecting the user experience.		DRM shall indicate the type and level of protection that each component provides for digital objects and shall provide means for a component to determine the type and level of protection provided by another component.
	10113 DRM shall support self-publishing by authors. This support shall include a range of security options, among which is the distribution of unprotected works.			
	10115 DRM shall ensure that an end user who purchases one copy of a digital object has rights to use only one copy of			

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	the object at any time.			
	10123 DRM shall provide means of distinguishing versions of a literary work.			
	10123.1 DRM shall provide means of making updated versions of a literary work available to end users.			
	10125 DRM shall allow publishers to sell digital objects to end users.			
[CMU Library] 10421 DRM shall allow libraries to lend digital objects to end users and designate loan periods. Loans may be analogous to loans of print books (i.e., the library can lend one copy of a digital object to only one person).	10130 DRM shall allow libraries to lend digital objects to end users.	10274 The REL shall support specifying time-based lending and lending of multiple copies subject to a pre-defined condition.		DRM shall allow libraries to lend digital objects to end users and to designate the duration or expiration times of the loans.
[CMU Library] 10422 When copyright expires on a digital objects and it legally moves into the public domain, the digital object shall then be accessible by the public. At this point, anyone shall be allowed to read, copy, and convert the digital object without paying a fee to the (former) copyright holder, and without committing a felony.	[CNI] 10468 DRM shall disable all usage and replication restrictions when a digital object enters the public domain.			When copyright expires on a digital objects and it legally moves into the public domain, the digital object shall then be accessible by the public. At this point, anyone shall be allowed to read, copy, and convert the digital object without paying a fee to the (former) copyright holder, and without committing a felony.
[CMU Library] 10424 DRM shall allow end users to copy, paste, and print small portions of digital objects --	10131 DRM shall allow end users to make "fair use" of digital objects (as defined by U.S. copyright law).	[EMEA] 10450.1 US and EU copyright law differs in relation to "fair use", and DRM shall not assume US fair	[Jonathan Hahn] 10031 DRM shall comply with the Digital Millennium Copyright Act and allow "fair use".	DRM shall allow end users to make "fair use" of digital objects to the extent that "fair use" is allowed by applicable copyright laws. For

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commensurate with fair use of a printed book -- without paying a fee to the copyright holder. [fair use principle]		use provisions.	[CNI] 10465 DRM shall allow users to invoke fair use, perhaps with accountability -- to be able to obtain an unprotected version of a work for what they declare to be "fair use" purposes under copyright law, but perhaps with the requirement that they register with the rights holder that they have done so.	example, in some circumstances "fair use" may include copying and printing portions of a digital object, or it may include the right to obtain an unprotected version of the work upon completing a registration procedure.
[CMU Library] 10425.2 DRM shall support the "first sale" principle to the extent that "first sale" is supported by applicable copyright laws. For example, in some circumstances "first sale" may permit purchasers of digital objects to use them on multiple reading systems, resell them, lend them, or give them to others without paying a fee to the copyright holder or breaking any laws. [first sale principle]	[CNI] 10464 DRM shall allow digital works to function in the same way that physical works do (i.e., ability to loan, give away, resell, etc).			DRM shall support the "first sale" principle to the extent that "first sale" is supported by applicable copyright laws. For example, in some circumstances "first sale" may permit purchasers of digital objects to use them on multiple reading systems, resell them, lend them, or give them to others without paying a fee to the copyright holder or breaking any laws.
	10132 DRM shall allow libraries to archive digital objects.	[CNI] 10469 DRM shall allow libraries and cultural heritage institutions to archive digital objects, if necessary bypassing usage and copying restrictions, and perhaps registering with the rights holder.		DRM shall allow libraries and cultural heritage institutions to archive digital objects.
	10136 DRM shall make buying and borrowing electronic publications easier than buying and borrowing the			

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	equivalent publications in print.			
	10137 DRM shall have sufficient performance that buying and borrowing electronic publications do not have noticeable delays for the end user.		10372 Consideration shall be given to the efficiency of rights expressions.	DRM shall be sufficiently efficient that performance does not have noticeable delays for end users and time-critical machine processing is not impaired.
	10141 DRM shall provide that future versions are backward compatible with older versions.			
[MarkAny] 10443 DRM shall support free preview of some portion of a digital object.	10145 DRM shall provide means for end users to preview digital objects before buying them.	10264 The REL shall support free preview of some portion of Digital Objects.		<u>Preview or Promotional Models</u> The REL shall support preview of the Digital Object, in whole or in part, free or for compensation.
	10146 DRM shall provide means for end users to obtain refunds for digital objects they purchase, subject to sellers' refund policies.			
	10151 The DRM trust architecture shall not require identification of technology providers in the specified data structures and protocols.			
	10152.2 Servers and clients shall use public-key infrastructure to negotiate trust. Each component shall present a digital certificate, which is part of a certificate chain leading to a trusted root certificate authority.			
	10153 DRM shall neither preclude nor prescribe specific public key encryption algorithms for creating or verifying digital signatures used			

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	as authentication certificates.			
	10155 Each component in the exchange of a digital object shall have a certificate that identifies the component's maximum level of trust.			
	10156 Each component in the exchange of a digital object shall deny rights for the digital object unless the rights are explicitly granted.		10325 Default semantics are required in the case when no Rights and Obligations expressions are currently applicable to a Digital Object. A mechanism to over-ride the default shall be made available in the REL.	Default semantics are required in the case when no Rights and Obligations expressions are currently applicable to a Digital Object. For example, each component in the exchange of a digital object shall deny rights for the digital object unless the rights are explicitly granted. A mechanism to overrride the default should be made available in the REL.
[EMEA] 10453 DRM shall only mandate DRM technology which can be exported freely from one country to another.	10158 DRM shall not require levels of encryption strength that would prevent components from being legally exported or imported.			DRM shall not require levels of encryption strength or other technology that would prevent components from being legally exported from one country to another.
	10159 Metadata for a digital object in the DRM context shall unambiguously identify a work for both supplier and recipient in a transaction.			
	10159.2 Metadata for a digital object in the DRM context shall include at least the title and originator of the work.			
	10160 Metadata for a digital object in the DRM context shall include enough information to allow a component that			

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	receives the object to process it correctly. For a reading system for electronic publications, this information includes the work's content format and information about how the work is encrypted, such as encryption algorithm, method, and key length.			
	10161 Metadata that resides in the license or voucher for a digital object shall be limited in size to allow for efficient transactions.		See 10372	
	10162 DRM shall provide means for associating a digital object with large bodies of metadata about the object.			
		10200, 10201 The REL shall support the articulation of roles undertaken by Users. Example: An identified User may be associated with the role of "Illustrator" for an identified Digital Object.	10330 It shall be possible within the REL to identify users according to a role that they fulfill.	The REL shall support the articulation of roles undertaken by Users. Example: User may be associated with the role of "Illustrator" for an identified Digital Object.
		10202 The REL shall support an open standard identification system for entities in the model. Example: ISO TC46 SC9 identification systems, open standards based on the URI standard (RFC2396)		
		10203, 10216 Creation Types The REL shall support the description of rights associated with all types of creations. Note: This includes abstractions, expressions,		

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		manifestations and artifacts. Example: To support the description of rights in musical works, performances of musical works, sound recordings and physical sound carriers.		
		10204 The REL shall enable the description of rights, permissions, conditions and obligations to support existing usage and business models and shall not constrain future models.	10419 If the REL is to include business model definitions then it shall accommodate all possible B2B business models and requirements.	Support Digital Object Usage/Business Models The REL shall enable the description of rights, permissions, conditions and obligations to support existing usage and business models and shall not constrain future models.
		10207 The REL shall support expression of permission by contract, which is not defined by the copyright law. Expression of rights, which are not granted protection under copyright law, but are granted protection under other laws, shall also be supported. Example: In order to take a picture of an ancient artistic work, authorization must be given by the owner of the work. Ownership of an ancient artistic work with expired copyright shall be described.	10392 Provision shall be made in the REL for contractual terms and conditions to be specifiable according to a chosen language of contract (which may be a formal XML-based standard or informal natural language).	The REL shall support expression of permission by contract, in a chosen language of contract, which may be a formal XML-based standard or informal natural language.
		10208 Definition of Terms The REL shall support the separation of the semantics from any syntactical encodings. Terms can be defined with a formal definition, name, comment and usage notes.		
		10209 Modeling of Dictionary Terms The REL shall allow		

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
		definition of abstract and concrete elements and shall allow for a hierarchy of elements.		
		10211 Narrowing of Rights The REL shall support the expression of narrowing of rights.		
		10212 Exclusive Rights The REL shall support the expression of exclusive rights.		
		10213 Exceptions of Rights The REL shall support the expression of exceptions to rights.		
		10214 Accessibility The REL shall allow for alternative usage permissions or constraints for digital objects to meet the needs of communities with special needs.	[CNI] 10467 DRM shall accommodate people with disabilities through such means as speech synthesis and control over fonts and layout.	The REL shall allow for alternative usage permissions or constraints for digital objects to meet the needs of communities with special needs.
		10217 Machine Readable The REL shall be machine-readable.		
		10199 Extensible Model The REL shall provide an extensible model that clearly identifies how the core entities are related. 10219 The REL shall be extensible to meet the future needs of the digital content industry.	10303 Extensibility shall be supported throughout the REL. Hooks shall be provided in the REL for the use of alternative schemas wherever sensible, with suitable attributes to allow the scheme to be identified.	The REL shall be extensible and allow alternative schemas wherever sensible to meet the future needs of the digital content industry.
		10220 Customizability The REL shall be customizable for specialized applications within the current version of the language.		
		10221 Interoperability The REL shall support		

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		interoperable DRM services, such as clearinghouse rights authentication, transactions processing, and secure storage.		
		10222, 10228 The REL shall provide mechanisms to unambiguously and universally identify rights expressions written in the language, as well as supply metadata information about these rights expressions.	10315 The REL shall allow for Rights and Obligations expressions to be treated as Digital Objects in their own right.	The REL shall provide mechanisms to unambiguously and universally identify rights expressions written in the language and allow these expressions to be treated as Digital Objects in their own right.
		10223 Authentication of Rights Expressions The REL shall allow for authentication of expressions and documents written in the language.		
		10224 Written in Open, Standard Meta-Language The REL shall be defined in an open, standard meta-language.		
		10225 Well-Defined Semantics The REL shall have useful, concise, unambiguous, and easily understandable semantics and predictable effects.		
		10226 Governance The REL shall be specified, documented, and otherwise managed in a way that meets general coordination requirements of industry standards.		
		10232 Digital Object Collections The REL shall provide mechanisms to reference		

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
		collections of Digital Objects.		
		10235 Digital Object Availability The REL shall support standard mechanisms to indicate where Digital Objects are available for retrieval or access.		
		10206, 10218 Life Cycle of Digital Objects The REL shall support all operations throughout the entire life cycle of digital objects including creation, publishing, distribution, consumption, and invalidation/disposal. 10236 Usage Rights expressed in the REL shall cover all essential types and modes of operations and activities that may happen to Digital Objects during their life cycles. This shall include at least the following usage rights: access, view, play, print, copy, edit, loan, and delete.	10388 The REL shall provide a rich set of enumerations (supported where necessary by structure in the REL) to describe how Digital Objects may be handled for purposes such as distribution and consumption.	The REL shall provide a set of default mechanisms to express all essential types and modes of usage and consumption of digital objects throughout their life cycles, including creation, publishing, distribution, consumption, and invalidation/disposal.
		10237 Categorization of Rights The REL shall enable the organization of Rights into categories.		
		10242 File Management Rights The REL shall provide mechanisms to express file management Rights to Digital Objects in order to govern their use across repositories or directories. Examples include: Delete, Verify, Backup, Restore.		
		10243 Configuration Rights		

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		The REL shall provide mechanisms to express configuration Rights for the loading of software. Examples: Install and Uninstall.		
		10247 Count Based Usage The REL shall provide mechanisms to specify conditions based on the number of times a right can be exercised.	See 10354	
		10248 Fee Based Usage The REL shall support the specification of fees in industry standard terms.		

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		10251 The REL shall provide mechanisms to specify access control policies for users with proper credentials, identifiable systems and target devices in order to: • Specify access control policies based on digital identities or certificates • Specify access control policies based on defined roles of users, systems and devices. • Specify access control policies based on possession of valid digital credentials (e.g., certificates, receipts or tickets), which contain predetermined conditions under which rights can be exercised.	10403 It shall be possible to name a trusted entity explicitly as part of a right or obligation expression.	The REL shall provide mechanisms to specify access control policies for users with proper credentials, identifiable systems or trusted devices. Examples: 1) Users will be granted access if they possess a specific Token or set of Tokens. 2) User will be granted access if they possess a specific digital certificate. 3) Access will be granted based on defined roles of users, systems and devices.

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
		• Specify access control policies based on certified levels of security arrangement of repositories. • Specify different access control policies for different rights on a work. Specify different access control policies for individual repositories, when exercising a right involves two or more repositories.	10332 It shall be possible in the REL to identify users by the possession of a Token (or set of Tokens).	
		10253 The REL shall provide mechanisms to specify information about portions of Digital Objects in order to support limiting rights to these certain portions.	10385 It shall be possible to express rules about sub-components of a Digital Object using both specific and general terms of reference such as *any paragraph of text* or specified fractions of the Object.	Portion Based Usage The REL shall provide mechanisms to specify information about portions of digital objects, including both identified portions and generic portions (such as "any 5 pages"), in order to support limiting rights to these certain portions.
		10255 Specification of Conditions Common to Different Rights The REL shall provide mechanisms to bundle		

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
		conditions and reference the bundle as a single entity.		
		10257 Specification of Obligations The REL shall provide mechanisms to express a set of obligations in order to support building and deploying DRM solutions, systems and services. Examples are: Watermarking, Usage Tracking, Legal Notices		
[MarkAny] 10444 The system that specifies rights shall provide watermarking information in multimedia content.		10259 The REL shall provide mechanisms to specify Digital Object watermarking information in order to • specify what information is to be embedded in a watermark. • embed into watermarks information known when a work is published (e.g. title and author) as well as information known only when a work is rendered (e.g. user name or printer name). • specify the types of watermarks that are consistent with Digital Object media types.		Watermarking The REL shall provide mechanisms to specify the application of a watermark to a Digital Object.
		10260 Specification of Obligations Common to Different Rights The REL shall provide mechanisms to bundle obligations and		

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		reference the bundle as a single entity		
		10262 Unlimited usage (Pay an Upfront Fee) The REL shall support specifying a price, including a price of "free", for unlimited usage, both in terms of conditions and obligations, and in terms of a predetermined set of rights.	10397.2 The REL shall support a consumer's outright payment for unlimited allowed interactions.	The REL shall support specifying a price, including a price of "free", for unlimited usage of a digital object.
		10269 Component Based Model The REL shall support specifying different rights, conditions and obligations to individual components of a composite work, as well as to the entire composite work.		
		10271 Site Licensing The REL shall support Digital Object access and use under a site license.		
		10276 Distributor Copies The REL shall support specifying a maximum number of copies that a distributor can make of a work for further transmission or sale.		
		10278 Nested Revenue Models The REL shall support specifying payments for Digital Object usage in terms of percentages of previous transactions. Example: Pay to B 2% of how much is paid to A.		
[Accessibility] 10427 ePublications shall enable any individual to exercise any rights				

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
granted regardless of ability or disability. Example: A user has the right to read an ePublication, but the reading system allows only rendering on a screen. A user who cannot read text on screen cannot exercise this right and must have access to an alternate means of reading (without broadening the right beyond reading).				
[Accessibility] 10428 DRM shall enable access technologies used by persons with disabilities to render content with a level of usability comparable to that provided to nondisabled end users. DRM shall not prevent the use of such technologies by persons with disabilities to exercise rights granted for an ePublication.				
[Accessibility] 10430 Persons with disabilities shall pay the same price for the same rights as persons without disabilities.				
[Accessibility] 10435 DRM shall allow trusted agencies to modify existing content for the purpose of enabling persons with disabilities to exercise the rights granted. Example: An agency might need to alter an audio publication to provide additional navigational features such as track announcements, page numbers, the				

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
bibliography, or the index.				
[MarkAny] 10440 DRM shall accept requirements from standardization activities, including MPEG IPMP, DOI, INDEC, W3C, cIDf, and others.				
[MarkAny] 10441 When two end users exchange a digital object, the rights to the digital object shall be exchanged along with the content.				
[MarkAny] 10442 DRM shall support end-user trades of digital objects and shall require users to identify themselves for tracking purposes.				
[EMEA] 10450 DRM shall take into account recent EU legislation, specifically the "EU Directive on Certain Aspects of Copyright and Related Rights in an Information Society" (known generally as "the EU Copyright Directive" http://eurorights.org/ eudmca/ CopyrightDirective.html).				
[EMEA] 10451 DRM shall take into account the EU legislation on Data Protection, as given in the European Directive on Data Protection.				
[EMEA] 10452 DRM shall take into				

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
account the EU rules on distance selling, as given in the Directive on the Protection of Consumers in respect of Distance Contracts. In the UK, this was enacted as the Consumer Protection (Distance Selling) Regulations 2000 (http://www.hmso.gov.uk/ si/si2000/20002334.htm). The Act specifies what has to be said about any product that is sold online, and the rights of the consumer to cancel the contract of purchase and be reimbursed.				
[EMEA] 10454 DRM systems shall not innately favor one national jurisdiction over another.				
[EMEA] 10455 DRM systems shall be able to identify content with sufficient precision in order to enable national laws on content, including laws protecting minors, to be enforced.				
			10300 The REL shall define a minimal core set of primitive constructs from which all other expressions can be constructed or derived. For example, instead of defining per-per-view, rent-to-own, and other such models, the core should provide the fundamental building blocks to link obligations (e.g., payment) to actions, to	

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
			allow obligations to repeat according to various criteria, provide metering syntax, etc. [DJP: the whole example above can come out, as long as those reading the remaining requirement can understand what we need. I'm not sure they can, so I've left it in for now].	
			10301 The REL shall be defined in terms of an extensible core and a default schema which may be extended or overridden on a local basis.	
			10302 The core REL shall contain only abstract terms, with concrete enumerations placed in either the default or alternative schemas.	
		??	10308 The REL shall allow for the specification of a set of Obligations that are a consequence of exercising a Right (or set of Rights).	
		??	10309 The REL shall allow for the specification of a set of conditions that must be fulfilled before a Right (or set of Rights) can be exercised.	
			10310 The REL shall allow for the specification of a set of obligations that must be fulfilled in order.	
			10311 The REL shall allow for the specification of a set of rights that exist according to a total or partial sequence. Transition between	

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
			rights in the sequence may be triggered by time-based or other events.	
			10313 Rights expressions shall allow for the specification of inheritance semantics to define how rights are transferred between associated digital objects.	
			10314 The REL shall be sufficiently extensible to allow for the description of all possible models of Rights and Obligations transfer between Digital Objects.	
			10316 Digital Objects shall include all data types both passive and dynamic, including infinite data streams and application program interfaces.	
			10321 An electronic contract may wish to bind together numerous rights and data entities in a relational manner. Provision shall exist in the REL to support this.	
			10322 It shall be possible to construct a single rights expression to apply to a class of Digital Objects. The REL shall therefore support class-definitions and affiliations.	
			10323 It shall be possible to identify Digital Objects according to their attributes.	
			10326 Default semantics are required in the case when Rights and	

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
			Obligations expressions are in conflict. A mechanism for globally over-riding the default conflict-resolution scheme shall also be provided.	
			10328 It shall be possible in the REL to identify Digital Objects according to fuzzy matching criteria such as "looks like" (with respect to image data), "sounds like" (with respect to audio data), etc. The Default schema shall contain an initial set of definitions and enumerations of such criteria.	
			10331 Provision shall be made in the REL for the formation of rights expressions in terms of attributes of the context in which the Interaction between users and Digital Objects is taking place. 10350 It shall be possible to specify in the REL alternative behaviors that may be required of user Interactions with Digital Objects according to the Context of the Interaction. Transition rules from one behaviour to the next may be predicated upon the Context of the Interaction (i.e., multiple paths should be specifiable with the actual transition path determined dynamically).	
			10333 The REL shall support	

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
			(possibly via extensibility mechanisms) arbitrarily complex predicate logic.	
			10334 For full-flexibility, it shall be possible to specify in the REL alternative predicate expressions as per a rule-based system.	
			10335 The REL shall support the concept of namespaces in all areas where extensibility might lead to name or syntax clashes.	
			10336 A hierarchy of Data Dictionary terms shall be supported such that local definitions may be referenced within closed communities. Default and user-specified augmentation and over-ride semantics are required.	
			10337 The REL shall provide facilities to reference Data Dictionary definitions from any source including dynamic sources such as LDAP directories and relational databases which may require dynamic resolution.	
			10339 Data Dictionaries are Digital Objects and shall therefore be subject to Rights and Obligations constraints.	
			10342 Support shall be given for mechanisms by which Rights and Obligations may be revoked during their lifetime.	
			10343	

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
			Support shall be given for mechanisms by which Rights and Obligations may be updated during their lifetime.	
			10344 Support shall be given for mechanisms by which Rights and Obligations may be renewed once their lifetime has expired (or have been otherwise revoked).	
			10345 The REL shall provide for cases where Rights and Obligations require update or renegotiation when specified trigger conditions are met.	
			10346 The REL shall provide a means for indicating that a Rights and Obligations expression should be validated by a dynamic (online) mechanism.	
			10347 In addition to temporal constraints on the lifetime of rights and obligations expressions, arbitrary trigger conditions shall be allowed to expire an expression.	
			10349 If a rights set denies access to one class of data, the REL shall allow a publisher to specify another class of data to which the rights apply. The REL shall support metadata for processing by rendering tools, or rights enforcement engines.	
			10351 The REL shall provide a mechanism for	

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			specifying that the details of Rights and Obligations expressions are private and exclusive to the subjects of those expressions.	
			10352, 10414 The REL shall provide a mechanism for defining the Obligations incumbent upon value chain participants with respect to their maintaining the privacy of terms and conditions.	
			10353 The REL shall make it possible for specific Expression Evaluation Services to be nominated for the evaluation of Rights and Obligations expressions.	
			10354 It shall be possible to define stateful as well as stateless Rights and Obligations expressions.	
			10355 The REL shall allow the specification of minimum levels of Quality of Service to be met by downstream distributors of content.	
			10356 It shall be possible to specify a minimum level of trust to be established between a distributor of content and a consumer before the distributor is permitted to deliver the content to the consumer.	
			10357 The REL shall provide syntax via which publishers can insist that data delivered to a recipient at any stage in a distribution chain be marked in some manner to identify the recipient.	
			10359	

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			Limitations on intermediate caching servers shall be specifiable in the REL.	
			10360 It shall be possible to specify in the REL the manner in which content is to be used, such as by the application of style guides and templates to define "look and feel".	
			10361, 10408 It shall be possible to specify in the REL a particular mechanism for determining whether or not an application is trustworthy.	
			10364 The REL shall make provision to describe requirements on distributors and other value-chain participant for branding content. Metadata constructs for describing the branding material (e.g., logos etc) are required.	
			10365 The REL shall allow for required acknowledgements to be specified as a consequence of using data.	
			10366 The REL shall make provision to describe requirements on all participants in the value chain (including rendering tools used by the end-consumer) on the placement of legal notices alongside content.	
			10367, 10368, 10398 Provision shall be made in the REL so that content originators can specify on their downstream partners the	

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
			requirement for fair delivery schedules, including time windows for delivery or release of content at specific times.	
			10369 It shall be possible to specify in the REL minimum bandwidth to be operated by downstream distributors and channel partners when they are responsible for downstream real-time data delivery.	
			10371 It shall be possible to identify Digital Objects within data streams according to attributes of the content within the stream.	
			10374 It shall be possible to express restrictions on the formation of queries according to the age of data being retrieved from historical data sources.	
			10375 It shall be possible to express restrictions on the execution of queries according to the load imposed on a server.	
			10376 It shall be possible to express restrictions on records retrieved from an interface according to attributes of the records being returned.	
			10377 It shall be possible to express restrictions on what data elements may be retrieved from an interface.	
			10378 The REL shall support the specification of allowed (or disallowed)	

AAP Requirement	EBX Requirement	CG Requirement	Reuters Requirement	Unified Requirement
			media via which content may be delivered.	
			10379 The REL shall provide syntax via which a publisher can contract with consumers to limit the purpose for which (and "real world" context in which) the content may be consumed.	
			10380 It shall be possible within the REL to describe liability incumbent upon value chain participants if they agree to Interact with Digital Objects in a particular fashion.	
			10383 The REL shall provide syntax for rules defining how Agents may alter Digital Objects subsequent to publication.	
			10384 The REL shall allow for rules governing the manner in which annotations may be added to an original Object. It shall be possible for the rules to describe how annotations are presented and distinguished from the original content.	
			10386 It shall be possible to state in the REL rules for how a Digital Object may be retained for future use. The access context may be different for a Digital Object accessed directly from an authorised supply mechanism than it is for the same object accessed from an	

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			Agent's local store. The context may alter merely because the Object is retained in a local store or be dependent upon criteria such as the number of accesses previously made to the retained object or the time for which it is retained.	
			10390 It shall be possible within the REL to specify rules regarding how a Digital Object may be referenced by other Digital Objects.	
			10391 The REL shall provide syntax for the expression of Rights and Obligations describing which parties may converse with each other within a transactional (or other) system (the system being identified as a Digital Object), and limitations on the nature of the conversations.	
			10393 The REL shall provide syntax for specifying that (and the method by which) a publisher requires explicit acknowledgement of contractual terms before access to an Object is granted. 10394 The REL shall make it possible to list explicit contractual terms (i.e., Rights and Obligations) that each require explicit acknowledgement.	
			10395 The REL shall make provision for multi-party contracts.	
			10396	

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			A special case of contract establishment is one which requires a value-chain participant to seek explicit permission for each and every use of a Digital Object. The REL shall provide a method for describing this case and all its attributes.	
			10402 It shall be possible within the REL to predicate expressions on any environmental elements and attributes that can be uniquely identified within the syntax and definitions of the REL.	
			10404 It shall be possible to specify a trusted entity by reference to a trusted third party according to some established path or chain of trust. The standard shall not assume any particular technology or method for specifying chains of trust.	
			10405, 10406 It shall be possible to specify that time-based constraints within a rights expression can be satisfied *only if* a trusted time-service is used to validate the current date and time and to specify what constitutes a trusted time-service.	
			10409 It shall be possible within the REL to specify a trusted environment within which both trusted and untrusted applications are allowed to interact with Digital Objects.	
			10410	

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			The REL shall allow stakeholders to be able to specify how downstream stakeholders construct audit trails.	
			10411 The methods by which stakeholders authenticate shall be specifiable as constraints within the REL.	
			10415, 10416, 10417 The REL shall make it possible to specify confidentiality clauses that require downstream contributors to respect the confidentiality of the source of the content or of organizations.	