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Change Request #:	96
Assigned OGC Document #:	10-119
Name:	*Leif Stainsby
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Document Name/Version:	*CSW-ebRIM Registry Service - Part 1: ebRIM profile of CSW / 1.0.1
OGC Project Document:	*07-110r4
If this is a revision of a previous submission and you have a Change Request Number, then check here: <input type="checkbox"/>	
Enter the CR number here: <input type="text"/>	
Enter the Revision Number that you are revising here: <input type="text"/>	
Title:	*Revise definition of VersionInfo/@versionName property
Source:	*L. Stainsby
Work item code:	<input type="text"/>
Category:	* C (Functional modification of feature)
Reason for change:	<p>* The CSW-ebRIM 1.0.1 spec does not address support for versioning of RegistryObjects. There is an ebRIM property, VersionInfo/@versionName, which is intended to track version numbering in a "versioning" registry. Clause 15.2.1 "General behaviour" (for Transactions) states that:</p> <p>"This profile does not specify any form of versioning. The value of the versionName attribute of the rim:VersionInfo element shall be an empty string for all unversioned registry objects."</p> <p>This renders a potentially useful property useless. The intent of this CR is to redefine this property in order to facilitate the development of additional registry capabilities based on change detection.</p> <p>For example, in HTTP, the Entity Tag (E-Tag) header used in conjunction with the If-None-Match request header can enable a registry service to optimize responses (i.e. avoid resending content that has NOT changed) in a standardized manner.</p>

Summary of change: ⓘ	<p>*</p> <p>Define VersionInfo/@versionName, in a non-versioning registry, to:</p> <ul style="list-style-type: none"> * be managed by the registry (cannot be set/modified by transaction requests) * be initialized to 1 by the registry on creation. * be incremented by 1 on each subsequent update (whether normal update or other, as in Life-Cycle updates). <p>Adopt similar definition for ContentVersionInfo/@versionName which applies to ExtrinsicObject repository items.</p> <p>Mandate support for the HTTP ETag header. It must be included in responses:</p> <ul style="list-style-type: none"> * for GetRecordById ~ ETag value set from VersionInfo/@versionName * for GetRepositoryItem ~ ETag value set from ContentVersionInfo/@versionName <p>If incoming request includes the "If-None-Match" header, its value is compared to the appropriate 'versionName' property. If different, normal response is returned. If it matches, the response must be HTTP status code 304, "Not Modified".</p> <p>Questions to be resolved:</p> <ul style="list-style-type: none"> ~ whether use of the versionName directly is sufficient for all cases; might need to consider a combination of id value plus the versionName value in order to support ETag use on requests with multiple responses (i.e. GetRecords, though, even GetRecordById can return multiple records). ~ whether the ETag header can be applied to requests other than GetRecordById or GetRepositoryItem.
Consequences if not approved: ⓘ	<p>CSW-ebRIM registries will be stuck with a useless attribute.</p> <p>Registry client software will be unable to easily/efficiently detect whether a given RegistryObject has been modified since they last retrieved it.</p> <p>Registries services will have difficulty implementing a convenient means to inform Registry client software when a retrieved object has not change since they last retrieved it.</p>
Clauses affected: ⓘ	<p>*</p> <p>Clause 15 "Transaction"</p>
Additional Documents affected: ⓘ	<p>May affect: * OGC 07-144r3, CSW-ebRIM Registry Service - Part 2: Basic extension package * OGC 08-103, CSW-ebRIM Registry Service - Part 3: Abstract test suite</p>
Supporting Documentation: ⓘ	

Comments: 

For information on the definition of the ETag and If-None-Match headers, please see: "HTTP: The Definitive Guide", Gourley and Totty, published by O'Reilly 2002.

Status: 

Assigned 

Disposition: 

Reffered 