

C4D Metadata CERIF Implementation

Revision	Date	Changes
1.0	22/1/2013	<ul style="list-style-type: none">• Initial release
1.1	18/2/2013	<ul style="list-style-type: none">• C4D export updated from CERIF 1.4 to 1.5• Element 22 – cfPers now uses cfPersName_Pers link (new to CERIF 1.5) to show ‘presented name’• Element 25 – added to C4D export as CERIF 1.5 supports linking cfResProd-cfMeas (whereas 1.4 did not)• Element 28 – flagged a problem with representing a version number as a cfFraction• Updated “Full CERIF Example” to reflect above changes• Added class scheme name used by element 25 to “Summary of Classification Scheme Names”• Added element 25 identifier to “Summary of C4D-generated Identifiers”

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C4D CERIF

Note: Cells highlighted in **ORANGE** are recommended mappings from the CERIF TG, which met in Athens 10-11 October 2012.

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
0		cfResProd	
C4D CERIF	<pre><cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> </cfResProd></pre>		
Notes	<ul style="list-style-type: none"> cfResProdId – UUID is generated when a metadata record is created in C4D 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
1	Resource Title	cfResProd.cfResProdName.cfName	
C4D CERIF	<pre><cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfName cfLangCode="eng" cfTrans="o">Resource Title</cfName> </cfResProd></pre>		
Notes	<ul style="list-style-type: none"> cfLangCode – derived from element 8 (resource language) 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
2	Alternative Resource Title	** NOT SUPPORTED IN CERIF **	CERIF TG proposes extending CERIF to support alternative titles.
C4D CERIF			
Notes			

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
3	Resource Abstract	cfResProd.cfResProdDescr.cfDescr	
C4D CERIF	<pre><cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfDescr cfLangCode="eng" cfTrans="o">Resource Abstract</cfDescr> </cfResProd></pre>		
Notes	<ul style="list-style-type: none"> cfLangCode – derived from element 8 (resource language) 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
4	Resource Type	cfResProd.cfResProd_Class.cfClassId	Resource Types (Dataset, Collection of Datasets)
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfResProd_Class> <cfClassId>dataset</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_datasetTypes</cfClassSchemeId> </cfResProd_Class> </cfResProd> </pre>		
Notes	<ul style="list-style-type: none"> • cfClassId – one of: dataset/series/service • cfClassSchemeId – class_scheme_resultProduct_classification_datasetTypes 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
5	Resource Locator (URL)	cfResProd.cfURI cfResProd_Srv.SrvId	If further information (function, name) beyond URL is needed, the use of the service entity is recommended; the need for a cfResProd_EAddr was discussed.
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfResProd_Srv> <cfSrvId>resourceLocator-c4d-metadata-34</cfSrvId> <cfClassId>download</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_onlineFunctions</cfClassSchemeId> </cfResProd_Srv> </cfResProd> <cfSrv> <cfSrvId>resourceLocator-c4d-metadata-34</cfSrvId> <cfURI>http://www.uri.com</cfURI> <cfName cfLangCode="eng" cfTrans="o">Resource Locator Name</cfName> </cfSrv> </pre>		
Notes	<p>This element has 3 sub-elements:</p> <ul style="list-style-type: none"> • URL • Name • Function (one of download/information/offline access/order/search) <p>In C4D, we always represent this element as shown in the above example (as cfResProd.cfURI is used by element 6).</p> <ul style="list-style-type: none"> • cfResProd_Srv.cfSrvId/cfSrv.cfSrvId – UNIS metadata record ID, prefixed with <i>resourceLocator-c4d-metadata-</i> • cfResProd_Srv.cfClassId – one of: <i>download/information/offline_access/order/search</i> • cfResProd_Srv.cfClassSchemeId – <i>class_scheme_resultProduct_classification_onlineFunctions</i> • cfSrv.cfURI – resource locator URI • cfSrv.cfName – resource locator name 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
6	Unique resource identifier		The field was not understood and needs further clarification *
C4D CERIF	<pre><cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfURI>http://www.bodc.ac.uk/5639287</cfURI> </cfResProd></pre>		
Notes	<p>* Typo in CERIF TG meeting 10-11/10/2012 report – element noted as “unique source” when it is actually unique resource identifier.</p> <p>This element comprises 2 sub-elements:</p> <ol style="list-style-type: none"> 1. Code – defined as “a unique identification code for the resource” – e.g. 5639287 2. Codespace – defined as “the authority that guarantees that the code sub-element is unique within its management system” – e.g. http://www.bodg.ac.uk <p>In C4D we represent this element within <code>cfResProd.cfURI</code> (where the URI is a concatenation of codespace + code)</p>		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
7	Coupled Resource	<code>cfResProd_ResProd.cfClassId</code>	Resource Types (Coupled Resource)
C4D CERIF			
Notes			

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
8	Resource Language	cfResProd.cfResProd_Class.cfClassId	Language Codes
C4D CERIF	<pre><cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfName cfLangCode="eng" cfTrans="o">Resource Title</cfName> <cfDescr cfLangCode="eng" cfTrans="o">Resource Abstract</cfDescr> <cfKeyw cfLangCode="eng" cfTrans="o">Keyword 1</cfKeyw> <cfKeyw cfLangCode="eng" cfTrans="o">Keyword 2</cfKeyw> <cfKeyw cfLangCode="eng" cfTrans="o">Keyword 3</cfKeyw> </cfResProd></pre>		
Notes	In C4D only one language can be selected from the ISO 639-2 vocabulary. This 3 character language code is then included in all multi-language elements – e.g. cfResProdName, cfResProdDescr, cfResProdKeyw		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
9	Topic Category	cfResProd.cfResProd_Class.cfClassId	Topic Categories
C4D CERIF	<pre><cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfResProd_Class> <cfClassId>inland_waters</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_datasetTopics</cfClassSchemeId> </cfResProd_Class> <cfResProd_Class> <cfClassId>location</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_datasetTopics</cfClassSchemeId> </cfResProd_Class> </cfResProd></pre>		
Notes	<p>For each category, C4D uses an instance of cfResProd_Class. E.g. if the metadata has 3 categories, there will be 3 instances of cfResProd_Class.</p> <ul style="list-style-type: none"> cfClassId – category name (XML friendly – i.e. lowercase with invalid characters removed – e.g. <i>Inland Waters</i> would become <i>inland_waters</i>) cfClassSchemeId – class_scheme_resultProduct_classification_datasetTopics 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
10	Spatial Data Service Type	cfSrv.cfResPubl_Srv.cfClassId	Spatial Data Service Types, Discovery Types
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfResProd_Srv> <cfSrvId>spatialDataServiceType-c4d-metadata-34</cfSrvId> <cfClassId>download</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_service_spatialDataServiceTypes</cfClassSchemeId> </cfResProd_Srv> </cfResProd> </pre>		
Notes	<ul style="list-style-type: none"> • cfResProd_Srv.cfSrvId – UNIS metadata record ID, prefixed with <i>spatialDataServiceType-c4d-metadata-</i> • cfResProd_Srv.cfClassId – one of: discovery/download/invoke/other/transformation/view • cfResProd_Srv.cfClassSchemeId – class_scheme_resultProduct_service_spatialDataServiceTypes 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
11	Keywords	cfResProd.cfResProdKeyw.cfKeyw cfResProd.cfResProd_Class.cfClassId	String field Controlled Vocabulary
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfKeyw cfLangCode="eng" cfTrans="o">Freetext keyword 1</cfKeyw> <cfKeyw cfLangCode="eng" cfTrans="o">Freetext keyword 2</cfKeyw> <cfKeyw cfLangCode="eng" cfTrans="o">Freetext keyword 3</cfKeyw> <cfResProd_Class> <cfClassId>elevation</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_inspireThemes</cfClassSchemeId> <cfStartDate>2013-01-10T00:00:00</cfStartDate> </cfResProd_Class> <cfResProd_Class> <cfClassId>land_use</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_inspireThemes</cfClassSchemeId> <cfStartDate>2013-01-10T00:00:00</cfStartDate> </cfResProd_Class> <cfResProd_Class> <cfClassId>geographical_grid_systems</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_inspireThemes</cfClassSchemeId> <cfStartDate>2013-01-10T00:00:00</cfStartDate> </cfResProd_Class> </cfResProd> </pre>		
Notes	<p>There are two types of keywords stored in C4D:</p> <ol style="list-style-type: none"> Keywords from formal marine vocabularies (e.g. INSPIRE themes, SeaVox, BODC Parameter Discovery – highlighted in GREEN above). Each keyword is represented as an instance of cfResProd_Class: <ul style="list-style-type: none"> cfClassId – keyword (XML friendly – i.e. lowercase with invalid characters removed – e.g. <i>Land Use</i> would become <i>land_use</i>) cfClassSchemeId – one of: <ul style="list-style-type: none"> class_scheme_resultProduct_classification_inspireThemes class_scheme_resultProduct_classification_seavoxVerticalCoordinateCoverage class_scheme_resultProduct_classification_bodcParameterDiscovery cfStartDate – date vocabulary created (in YYYY-MM-DDTHH:MM:SS format) Free-text, comma-separated keywords where none of the formal vocabularies are appropriate (highlighted in YELLOW above). Each keyword is represented as an instance of cfKeyw: <ul style="list-style-type: none"> cfLangCode – derived from element 8 (language code) 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
12	Geographic Bounding Box	** NOT SUPPORTED IN CERIF ** cfResProd.cfResProd_GeoBBox.cfGeoBBoxId	
C4D CERIF Notes	<p>At present, CERIF has a cfGeoBBox element (see below) which we can use to record these attributes. However, it does not have a cfResProd_GeoBBox linking element so we can't currently use it.</p> <pre> cfGeoBBox { cfGeoBBoxId cfWBLong cfEBLong cfSBLat cfNBLat } </pre>		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
13	Extent	cfResProd_Class.cfClassId	Extent (geographic, regionally marine, air, space diverse)
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfResProd_Class> <cfClassId>alboran_sea</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_c191seavoxGazetteer</cfClassSchemeId> <cfStartDate>2013-01-14T00:00:00</cfStartDate> </cfResProd_Class> <cfResProd_Class> <cfClassId>andaman_sea</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_c191seavoxGazetteer</cfClassSchemeId> <cfStartDate>2013-01-14T00:00:00</cfStartDate> </cfResProd_Class> </cfResProd> </pre>		
Notes	<p>There are two types of extents stored in C4D:</p> <ol style="list-style-type: none"> Extents from formal vocabularies (i.e. SeaVoX salt and fresh water body – highlighted in YELLOW above). Each vocabulary term is represented as an instance of cfResProd_Class: <ul style="list-style-type: none"> cfClassId – term (XML friendly – i.e. lowercase with invalid characters removed – e.g. Alboran Sea would become <i>alboran_sea</i>) cfClassSchemeId – class_scheme_resultProduct_classification_c191seavoxGazetteer cfStartDate – date vocabulary created (in YYYY-MM-DDTHH:MM:SS format) Free-text extent – not sure how to represent in CERIF as cfResProd.cfKeyw in use by element 11 (keywords)? 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
14	Vertical Extent Information	** NOT SUPPORTED IN CERIF ** cfGeoBBox.cfNBLong, cfGeoBBox.cfSBLong	
C4D CERIF Notes	<p>CERIF TG recommend cfGeoBBox.cfNBLong/cfSBLong – however, we should surely use cfGeoBBox.cfMinElev/cfMaxElev?</p> <p>In C4D, this element has 3 sub-elements:</p> <ol style="list-style-type: none"> 1. Minimum value – defined as “the shallowest depth recorded if subtidal, or if intertidal the lowest point recorded” 2. Maximum value – defined as “the deepest depth recorded if subtidal, or if intertidal, the highest point recorded” 3. Vertical reference system – defined as “the vertical coordinate reference system of the minimum and maximum vertical extent values. The vertical coordinate reference system should be included by reference to the EPSG register of geodetic parameters (http://www.epsg.org/Geodetic.html).” – e.g. urn:ogc:def:crs:EPSG::5701 <p>At present, CERIF has a cfGeoBBox element (see below) which we can use to record these attributes. However, it does not have a cfResProd_GeoBBox linking element so we can't currently use it.</p> <pre>cfGeoBBox { cfGeoBBoxId cfMinElev cfMaxElev cfURI }</pre>		

Element No	Element Name	CERIF Entity	Vocabularies/Comments
15	Spatial Reference	cfResProd.cfResProd_Class.cfClassSchemeId	Spatial Reference Scheme
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfResProd_Class> <cfClassId>spatialReference-c4d-metadata-34</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_spatialReferenceSystem</cfClassSchemeId> </cfResProd_Class> </cfResProd> <cfClass> <cfClassId>spatialReference-c4d-metadata-34</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_spatialReferenceSystem</cfClassSchemeId> <cfURI>urn:ogc:def:crs:EPSG::4326</cfURI> </cfClass> </pre>		
Notes	<p>This element is described as:</p> <p>“The system of spatial referencing (typically a coordinate reference system) used in the resource. This should be derived from the EPSG register of geodetic parameters (http://www.epsg-registry.org/). To find a code click on the OGP Online Registry and if you know the title (e.g. WGS84) then type this in the ‘Name’ field and click search. The name, code and further information is displayed.”</p> <p>This element is a URI – e.g. urn:ogc:def:crs:EPSG::4326</p> <p>As the cfResProd_Class element does not include a cfURI attribute, we link to a cfClass element, which does.</p> <ul style="list-style-type: none"> • cfClassId – UNIS record ID, prefixed with spatialReference-c4d-metadata- • cfClassSchemeId – class_scheme_resultProduct_classification_spatialReferenceSystem 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
16	Temporal Reference	cfResProd.cfResProd_Class.cfClassSchemeId	Temporal Extent Scheme (The period the data is related to)
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfResProd_Class> <cfClassId>temporal_extent</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_temporalReference</cfClassSchemeId> <cfStartDate>2010-01-01T00:00:00</cfStartDate> <cfEndDate>2010-01-02T00:00:00</cfEndDate> </cfResProd_Class> <cfResProd_Class> <cfClassId>publication</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_temporalReference</cfClassSchemeId> <cfStartDate>2010-01-03T00:00:00</cfStartDate> </cfResProd_Class> <cfResProd_Class> <cfClassId>revision</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_temporalReference</cfClassSchemeId> <cfStartDate>2010-01-04T00:00:00</cfStartDate> </cfResProd_Class> <cfResProd_Class> <cfClassId>creation</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_temporalReference</cfClassSchemeId> <cfStartDate>2010-01-05T00:00:00</cfStartDate> </cfResProd_Class> </cfResProd> </pre>		
Notes	<p>Four dates supported in C4D for this element: temporal extent (which has a start and end date), created (single date), revised (single date), published (single date).</p> <ul style="list-style-type: none"> • cfClassId – one of: temporal_extent/publication/revision/creation • cfClassSchemeId – always: class_scheme_resultProduct_classification_temporalReference 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
17	Lineage	** NOT SUPPORTED IN CERIF **	Lineage or Province attribute. CERIF TG proposes extending CERIF to support this element.
C4D CERIF Notes			

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
18	Spatial Resolution	** NOT SUPPORTED IN CERIF ** cfResProd.cfResProd_GeoBBox.cfClassId	
C4D CERIF Notes	<p>This element is defined as:</p> <p>“Numeric (positive whole number) and free text. Provides an indication of the spatial resolution of the data. The element has largely been derived for the mapping community and is currently poorly defined however MEDIN recommends that you provide the average distance (i.e. resolution) between sampling locations in metres.”</p> <p>CERIF TG recommendation is to use cfResProd_GeoBBox but not sure if this is the best fit? This element also does not exist in CERIF yet.</p>		

Element No	Element Name	CERIF Entity	Vocabularies/Comments
19	Additional Information	cfResProd.cfResProd_cfResPubl.cfResPublId	Additional Information
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfResPubl_ResProd> <cfResPublId>additionalInfo-c4d-metadata-34</cfResPublId> <cfClassId>relation</cfClassId> <!-- Formal UUID for relation: eda28bc2-34c5-11e1-b86c-0800200c9a66 --> <cfClassSchemeId>class_scheme_resultPublication_resultProduct_additionalInfoSource</cfClassSchemeId> </cfResPubl_ResProd> </cfResProd> <cfResPubl> <cfResPublId>additionalInfo-c4d-metadata-34</cfResPublId> <cfName cfLangCode="eng" cfTrans="o">Resource Title - Additional Information Sources</cfName> <cfAbstr cfLangCode="eng" cfTrans="o">.....</cfAbstr> </cfResPubl> </pre>		
Notes	<p>cfResPubl_ResProd:</p> <ul style="list-style-type: none"> • cfResPubId – UNIS metadata record ID, prefixed with additionalInfo-c4d-metadata- • cfClassId – relation (taken from formal CERIF vocabulary) • cfClassSchemeId – class_scheme_resultPublication_resultProduct_additionalInfoSource <p>cfResPubl:</p> <ul style="list-style-type: none"> • cfResPubId – UNIS metadata record ID, prefixed with additionalInfo-c4d-metadata- • cfName – resource title (element 1) + “ – Additional Information Sources” • cfAbstr – additional info sources 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
20	Limitations on Public Access	cfResProd.cfResProd_Class.cfClassId	Limitations on Public Access (sensitivity, access rights)
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfResProd_Class> <cfClassId>patent_pending</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_publicAccessLimitations</cfClassSchemeId> </cfResProd_Class> </cfResProd> </pre>		
Notes	<p>Uses terms from ISO 19115 vocabulary:</p> <ul style="list-style-type: none"> • Copyright • Patent • Patent Pending • Trademark • License • Intellectual Property Rights • Restricted • Other Restrictions <p>If “Restricted” or “Other Restrictions” is selected, additional free-text further info is required. This is not currently supported in CERIF, but the TG meeting in Athens (10-11/10/2012) proposed the inclusion of a field for such sensitive information in CERIF.</p> <p>As a result, only the selected vocabulary term is represented in CERIF in C4D:</p> <ul style="list-style-type: none"> • cfClassId – vocabulary term (XML friendly – i.e. lowercase with invalid characters removed – e.g. <i>Patent Pending</i> would become <i>patent_pending</i>) • cfClassSchemeId – class_scheme_resultProduct_classification_publicAccessLimitations 		

Element No	Element Name	CERIF Entity	Vocabularies/Comments
21	Conditions applying for access and use	cfResProd.cfResProd_Class.cfClassSchemeId	Usage rights
C4D CERIF			
Notes	CERIF TG recommends using cfResProd_Class. However, this element is free-text so not sure if that is appropriate?		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
22	Responsible Party	cfResProd.cfOrgUnit_ResProd.cfOrgUnitId cfResProd.cfPers_ResProd.cfPersId	Responsible Party (originator, custodian, distributor, metadata point of contact)
C4D CERIF	<p>Responsible contact:</p> <pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfPers_ResProd> <cfPersId>responsibleParty-c4d-contact-31851</cfPersId> <cfClassId>custodian</cfClassId> <cfClassSchemeId>class_scheme_person_resultProduct_dataResponsibility</cfClassSchemeId> </cfPers_ResProd> </cfResProd> <cfPers> <cfPersId>responsibleParty-c4d-contact-31851</cfPersId> <cfPersName_Pers> <cfPersNameId>presentedName-c4d-contact-31851</cfPersNameId> <cfClassId>presented_name</cfClassId> <!-- Formal euroCRIS UUID = 55f90543-d631-42eb-8d47-d8d9266cbb26 --> <cfClassSchemeId>class_scheme_cerif_personNames</cfClassSchemeId> <!-- Formal euroCRIS UUID = 7375609d-cfa6-45ce-a803-75de69abe21f --> <cfFamilyNames>Cranner</cfFamilyNames> <cfFirstNames>Paul</cfFirstNames> </cfPersName_Pers> </cfPers> Responsible organisation: <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfOrgUnit_ResProd> </pre>		

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    <cfOrgUnitId>responsibleParty-c4d-org-2345</cfOrgUnitId>
    <cfClassId>owner</cfClassId>
    <cfClassSchemeId>class_scheme_organisationUnit_resultProduct_dataResponsibility</cfClassSchemeId>
  </cfOrgUnit_ResProd>
</cfResProd>
<cfOrgUnit>
  <cfOrgUnitId>responsibleParty-c4d-org-2345</cfOrgUnitId>
  <cfName cfLangCode="en_GB" cfTrans="e">University of Sunderland</cfName>
  <cfOrgUnit_EAddr>
    <cfEAddrId>01915152000</cfEAddrId>
    <cfClassId>telephone</cfClassId>
    <cfClassSchemeId>class_scheme_organisation_electronicAddress</cfClassSchemeId>
  </cfOrgUnit_EAddr>
  <cfOrgUnit_EAddr>
    <cfEAddrId>01915153236</cfEAddrId>
    <cfClassId>fax</cfClassId>
    <cfClassSchemeId>class_scheme_organisation_electronicAddress</cfClassSchemeId>
  </cfOrgUnit_EAddr>
  <cfOrgUnit_EAddr>
    <cfEAddrId>enquiries@sunderland.ac.uk</cfEAddrId>
    <cfClassId>email</cfClassId>
    <cfClassSchemeId>class_scheme_organisation_electronicAddress</cfClassSchemeId>
  </cfOrgUnit_EAddr>
  <cfOrgUnit_PAddr>
    <cfPAddrId>responsibleParty-c4d-org-2345</cfPAddrId>
    <cfClassId>organisation_legal_postal_address</cfClassId>
    <cfClassSchemeId>class_scheme_cerif_OrgUnit_PAddr</cfClassSchemeId>
  </cfOrgUnit_PAddr>
</cfOrgUnit>
<cfPAddr>
  <cfPAddrId>responsibleParty-c4d-org-2345</cfPAddrId>
  <cfAddrline1>Edinburgh Building</cfAddrline1>
  <cfAddrline2>City Campus</cfAddrline2>
  <cfAddrline3>Chester Road</cfAddrline3>
  <cfPostCode>SR1 3SD</cfPostCode>
  <cfCityTown>Sunderland</cfCityTown>
  <cfStateOfCountry>Tyne and Wear</cfStateOfCountry>
</cfPAddr>

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Notes C4D supports responsible organisations and contacts. When linking a responsible organisation/contact to metadata, you must specify one of

the following roles: Author/Custodian/Distributor/Originator/Owner/Point of Contact/Principal Investigator/Processor/Publisher/Resource Provider/User

In CERIF, the linkages are represented with instances of cfOrgUnit_ResProd (highlighted in GREEN above) /cfPers_ResProd (highlighted in YELLOW above):

- cfOrgUnitId/cfPersId – uses UNIS record ID, prefixed with either responsibleParty-c4d-contact / responsibleParty-c4d-org-
- cfClassId – one of: author / custodian / distributor / originator / owner / point_of_contact / principal_investigator / processor / publisher / resource_provider / user
- cfClassSchemeId – either: class_scheme_person_resultProduct_dataResponsibility / class_scheme_organisationUnit_resultProduct_dataResponsibility

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
23	Data Format	cfResProd.cfResProd_Class.cfClassId	The cfResProd links to a version info
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfVersInfo cfLangCode="eng" cfTrans="o">2.3.5</cfVersInfo> <cfResProd_Class> <cfClassId>odv</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_dataFormat</cfClassSchemeId> </cfResProd_Class> </cfResProd> </pre>		
Notes	<p>This element comprises 2 sub-elements:</p> <ul style="list-style-type: none"> • Data format – vocabulary with the following terms: DB – Database, TXT – Text files, DEL – Delimited, DOC – Documents, GIS – Geographic Information System, KMX – Google Earth and Oceans, IMG – Image, MOV – Movie, NC – Network Common Data Form, ODV – Ocean Data View • Version – free text <p>In C4D, we represent the data format with an instance of cfResProd_Class:</p> <ul style="list-style-type: none"> • cfClassId – abbreviation of a vocabulary term (e.g. odv for <i>Ocean Data View</i>) • cfClassSchemeId – class_scheme_resultProduct_classification_dataFormat <p>Version info is represented with the cfResProd.cfVersInfo attribute.</p>		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
24	Frequency of Update	cfResProd.cfResProd_Class.cfClassId	Updated frequency scheme
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfResProd_Class> <cfClassId>as_required</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_updateFrequency</cfClassSchemeId> </cfResProd_Class> </cfResProd> </pre>		
Notes	<p>Uses a vocabulary with the following terms: Annually / As required / Biannually / Continual / Daily / Fortnightly / Irregular / Monthly / Not planned / Quarterly / Unknown / Weekly</p> <p>In C4D, we represent the data format with an instance of cfResProd_Class:</p> <ul style="list-style-type: none"> cfClassId – vocabulary term (XML friendly – i.e. lowercase with invalid characters removed – e.g. <i>As required</i> would become <i>as_required</i>) cfClassSchemeId – class_scheme_resultProduct_classification_updateFrequency 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
25	Conformity	cfResProd.cfResProd_Meas.cfMeasId	
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfResProd_Meas> <cfMeasId>conformity-c4d-metadata-45</cfMeasId> <cfClassId>conformity</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_measurement</cfClassSchemeId> <cfStartDate>2013-02-19T00:00:00</cfStartDate> <cfFraction>1</cfFraction> </cfResProd_Meas> </cfResProd> <cfMeas> <cfMeasId>conformity-c4d-metadata-45</cfMeasId> <cfName cfLangCode="eng" cfTrans="o">Conformity Title</cfName> <cfDescr cfLangCode="eng" cfTrans="o">Meaning of conformance for this degree of conformance result</cfDescr> </cfMeas> </pre>		
Notes	<p>This element comprises 4 sub-elements:</p> <ul style="list-style-type: none"> Title – the citation of the specification or user requirement against which data resource is evaluated Date created Degree of conformity – relates to INSPIRE Directive 1 and indicates whether a resource conforms to a product specification (TRUE/FALSE) Explanation – meaning of conformance for this degree of conformance result <p>In CERIF, conformity is represented with an instance of cfMeas linked via cfResProd_Meas (highlighted in YELLOW above):</p> <ul style="list-style-type: none"> cfMeasId – uses UNIS record ID, prefixed with conformity-c4d-metadata- cfResProd_Meas.cfClassId – conformity cfResProd_Meas.cfClassSchemeId – class_scheme_resultProduct_measurement cfResProd_Meas.cfStartDate – date created in yyyy-mm-ddT00:00:00 format cfResProd_Meas.cfFraction – 1 if degree of conformity is true; 0 if false cfMeas.Name – title cfMeas.Descr – explanation cfLangCode – derived from element 8 (language code) 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
26	Metadata Date		Managed by the application
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfResProd_Class> <cfClassId>last_modified</cfClassId> <cfClassSchemeId>class_scheme_resultProduct_classification_metadata</cfClassSchemeId> <cfStartDate>2013-01-15T00:00:00</cfStartDate> </cfResProd_Class> </cfResProd> </pre>		
Notes	<p>No recommendation from CERIF TG on how this should be represented, so went with Scott's C4D suggested mapping using an instance of cfResProd_Class:</p> <ul style="list-style-type: none"> • cfClassId – last_modified • cfClassSchemeId – class_scheme_resultProduct_classification_metadata • cfStartDate – actual data last modified (or created date if never modified) 		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
27	Metadata standard name		Scheme name
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfOrgUnit_ResProd> <cfOrgUnitId>authority-c4d-metadata-34</cfOrgUnitId> <cfClassId>authority</cfClassId> <cfClassSchemeId>class_scheme_organisationUnit_resultProduct_roles</cfClassSchemeId> <cfFraction>1.2</cfFraction> </cfOrgUnit_ResProd> </cfResProd> <cfOrgUnit> <cfOrgUnitId>authority-c4d-metadata-34</cfOrgUnitId> <cfName cfLangCode="eng" cfTrans="o">MEDIN Discovery Metadata Standard</cfName> </cfOrgUnit> </pre>		
Notes	<p>No recommendation from euroCRIS meeting notes (10-11/10/2012) on how this should be represented, so went with Scott's C4D suggested mapping using an instance of cfOrgUnit_ResProd:</p> <ul style="list-style-type: none"> • cfOrgUnitId – UNIS metadata record ID, prefixed with authority-c4d-metadata- • cfClassId – authority • cfClassSchemeId – class_scheme_organisationUnit_resultProduct_roles • cfFraction – element 28 (metadata standard version – didn't use cfResProd.cfVersInfo as this holds element 23) <p>cfOrgUnit.cfName contains the actual metadata standard name.</p>		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
28	Metadata Standard Version		Scheme Description
C4D CERIF	See Element 27 (above)		
Notes	<p>There is a problem representing a version number as a cfFraction – i.e. if the version number contains more than one point (e.g. 2.3.7, which is the latest version of MEDIN) it is not a valid fraction and the CERIF will not validate! Recommend finding another way to represent a version number!</p>		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
29	Metadata Language		Language scheme (e.g. ISO codes)
C4D CERIF			
Notes	cfLang seems to be the best fit? However there is no way to link it to cfResProd so not implemented in C4D.		

Element No.	Element Name	CERIF Entity	Vocabularies/Comments
30	Parent ID	cfResProd.cfResProd_ResProd.cfResProdId	Structural scheme (parent)
C4D CERIF	<pre> <cfResProd> <cfResProdId>02086348-7c61-4be1-8976-2003afc66052</cfResProdId> <cfResProd_ResProd> <cfResProdId2>XXX</cfResProdId2> <cfClassId>relation</cfClassId> <cfClassSchemeId>class_scheme_cerif_resultProduct_resultProduct</cfClassSchemeId> </cfResProd_ResProd> </cfResProd> </pre>		
Notes			

Full CERIF Example

```
<?xml version="1.0" encoding="UTF-8"?>
<CERIF date="2013-01-23" release="1.5" sourceDatabase="C4D" xmlns="urn:xmlns:org:eurocris:cerif-1.5-1"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:xmlns:org:eurocris:cerif-1.5-1 http://www.eurocris.org/Uploads/Web%20pages/CERIF-
  1.5/CERIF_1.5_1.xsd">
  <cfResProd>
    <cfResProdId>063c3af4-80c1-6edf-c143-a62000bf5cf0</cfResProdId> <!-- element 0 -->
    <cfURI>http://bodg.ac.uk/5639287</cfURI> <!-- element 6 -->
    <cfName cfLangCode="eng" cfTrans="o">Resource Title</cfName> <!-- element 1 (cfLangCode = element 8) -->
    <cfDescr cfLangCode="eng" cfTrans="o">&lt;p&gt;This is the resource abstract.&lt;/p&gt;</cfDescr>
    <cfKeyw cfLangCode="eng" cfTrans="o">Freetext keyword one</cfKeyw> <!-- element 11 (cfLangCode = element 8) -->
    <cfKeyw cfLangCode="eng" cfTrans="o">Freetext keyword two</cfKeyw> <!-- element 11 (cfLangCode = element 8) -->
    <cfKeyw cfLangCode="eng" cfTrans="o">Freetext keyword 3</cfKeyw> <!-- element 11 (cfLangCode = element 8) -->
    <cfVersInfo cfLangCode="eng" cfTrans="o">2.3.5</cfVersInfo> <!-- element 23 (cfLangCode = element 8) -->
  <!-- element 4 -->
  <cfResProd_Class>
    <cfClassId>dataset</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_datasetTypes</cfClassSchemeId>
  </cfResProd_Class>
  <!-- element 5(a) -->
  <cfResProd_Srv>
    <cfSrvId>resourceLocator-c4d-metadata-44</cfSrvId>
    <cfClassId>download</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_onlineFunctions</cfClassSchemeId>
  </cfResProd_Srv>
  <!-- element 9 -->
  <cfResProd_Class>
    <cfClassId>inland_waters</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_datasetTopics</cfClassSchemeId>
  </cfResProd_Class>
  <cfResProd_Class>
    <cfClassId>location</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_datasetTopics</cfClassSchemeId>
  </cfResProd_Class>

```

```
<!-- element 10 -->
  <cfResProd_Srv>
    <cfSrvId>spatialDataServiceType-c4d-metadata-44</cfSrvId>
    <cfClassId>download</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_service_spatialDataServiceTypes</cfClassSchemeId>
  </cfResProd_Srv>
<!-- element 11 -->
  <cfResProd_Class>
    <cfClassId>energy_resources</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_inspireThemes</cfClassSchemeId>
    <cfStartDate>2013-01-10T00:00:00</cfStartDate>
  </cfResProd_Class>
  <cfResProd_Class>
    <cfClassId>cadastral_parcels</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_inspireThemes</cfClassSchemeId>
    <cfStartDate>2013-01-10T00:00:00</cfStartDate>
  </cfResProd_Class>
  <cfResProd_Class>
    <cfClassId>hadopelagic_water_column</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_seavoxVerticalCoordinateCoverage</cfClassSchemeId>
    <cfStartDate>2013-01-10T00:00:00</cfStartDate>
  </cfResProd_Class>
  <cfResProd_Class>
    <cfClassId>benthic_boundary_layer</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_seavoxVerticalCoordinateCoverage</cfClassSchemeId>
    <cfStartDate>2013-01-10T00:00:00</cfStartDate>
  </cfResProd_Class>
  <cfResProd_Class>
    <cfClassId>bacteria_generic_abundance_in_sediment</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_bodcParameterDiscovery</cfClassSchemeId>
    <cfStartDate>2013-01-10T00:00:00</cfStartDate>
  </cfResProd_Class>
  <cfResProd_Class>
    <cfClassId>bacteria_non_taxonomyrelated_biomass_expressed_as_protein_per_unit_volume_of_the_water_column</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_bodcParameterDiscovery</cfClassSchemeId>
    <cfStartDate>2013-01-10T00:00:00</cfStartDate>
  </cfResProd_Class>
```

```
<!-- element 13 -->
  <cfResProd_Class>
    <cfClassId>alboran_sea</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_c191seavoxGazetteer</cfClassSchemeId>
    <cfStartDate>2013-01-14T00:00:00</cfStartDate>
  </cfResProd_Class>
  <cfResProd_Class>
    <cfClassId>andaman_sea</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_c191seavoxGazetteer</cfClassSchemeId>
    <cfStartDate>2013-01-14T00:00:00</cfStartDate>
  </cfResProd_Class>
<!-- element 15(a) -->
  <cfResProd_Class>
    <cfClassId>spatialReference-c4d-metadata-44</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_spatialReferenceSystem</cfClassSchemeId>
  </cfResProd_Class>
<!-- element 16 -->
  <cfResProd_Class>
    <cfClassId>temporal_extent</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_temporalReference</cfClassSchemeId>
    <cfStartDate>2010-01-01T00:00:00</cfStartDate>
    <cfEndDate>2010-01-02T00:00:00</cfEndDate>
  </cfResProd_Class>
  <cfResProd_Class>
    <cfClassId>publication</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_temporalReference</cfClassSchemeId>
    <cfStartDate>2010-01-03T00:00:00</cfStartDate>
  </cfResProd_Class>
  <cfResProd_Class>
    <cfClassId>revision</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_temporalReference</cfClassSchemeId>
    <cfStartDate>2010-01-04T00:00:00</cfStartDate>
  </cfResProd_Class>
  <cfResProd_Class>
    <cfClassId>creation</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_temporalReference</cfClassSchemeId>
    <cfStartDate>2010-01-05T00:00:00</cfStartDate>
  </cfResProd_Class>
```

```
<!-- element 19(a) -->
  <cfResPubl_ResProd>
    <cfResPublId>additionalInfo-c4d-metadata-44</cfResPublId>
    <cfClassId>relation</cfClassId> <!-- Formal UUID for relation: eda28bc2-34c5-11e1-b86c-0800200c9a66 -->
    <cfClassSchemeId>class_scheme_resultPublication_resultProduct_additionalInfoSource</cfClassSchemeId>
  </cfResPubl_ResProd>
<!-- element 20 -->
  <cfResProd_Class>
    <cfClassId>patent_pending</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_publicAccessLimitations</cfClassSchemeId>
  </cfResProd_Class>
<!-- element 22(a) -->
  <cfPers_ResProd>
    <cfPersId>responsibleParty-c4d-contact-32051</cfPersId>
    <cfClassId>custodian</cfClassId>
    <cfClassSchemeId>class_scheme_person_resultProduct_dataResponsibility</cfClassSchemeId>
  </cfPers_ResProd>
  <cfOrgUnit_ResProd>
    <cfOrgUnitId>responsibleParty-c4d-org-23429</cfOrgUnitId>
    <cfClassId>owner</cfClassId>
    <cfClassSchemeId>class_scheme_organisationUnit_resultProduct_dataResponsibility</cfClassSchemeId>
  </cfOrgUnit_ResProd>
<!-- element 23 -->
  <cfResProd_Class>
    <cfClassId>odv</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_dataFormat</cfClassSchemeId>
  </cfResProd_Class>
<!-- element 24 -->
  <cfResProd_Class>
    <cfClassId>as_required</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_updateFrequency</cfClassSchemeId>
  </cfResProd_Class>
<!-- element 26 -->
  <cfResProd_Class>
    <cfClassId>last_modified</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_metadata</cfClassSchemeId>
    <cfStartDate>2013-01-15T00:00:00</cfStartDate>
  </cfResProd_Class>
```

```

<!-- element 27(a) -->
  <cfOrgUnit_ResProd>
    <cfOrgUnitId>authority-c4d-metadata-44</cfOrgUnitId>
    <cfClassId>authority</cfClassId>
    <cfClassSchemeId>class_scheme_organisationUnit_resultProduct_roles</cfClassSchemeId>
    <cfFraction>235</cfFraction>
  </cfOrgUnit_ResProd>
<!-- element 25 -->
  <cfResProd_Meas>
    <cfMeasId>conformity-c4d-metadata-45</cfMeasId>
    <cfClassId>conformity</cfClassId> <!-- hard-coded -->
    <cfClassSchemeId>class_scheme_resultProduct_measurement</cfClassSchemeId>
    <cfStartDate>2013-02-19T00:00:00</cfStartDate>
    <cfFraction>1</cfFraction>
  </cfResProd_Meas>
</cfResProd>

<!-- ===== Linked Services ===== -->
<!-- element 5(b) -->
  <cfSrv>
    <cfSrvId>resourceLocator-c4d-metadata-44</cfSrvId>
    <cfURI>http://www.url.com</cfURI>
    <cfName cfLangCode="eng" cfTrans="o">Resource Locator Name</cfName> <!-- (cfLangCode = element 8) -->
  </cfSrv>

<!-- ===== Linked Publications ===== -->
<!-- element 19(b) -->
  <cfResPubl>
    <cfResPublId>additionalInfo-c4d-metadata-44</cfResPublId>
    <cfTitle cfLangCode="eng" cfTrans="o">Resource Title - Additional Information Sources</cfTitle> <!--
      (cfLangCode = element 8) -->
    <cfAbstr cfLangCode="eng" cfTrans="o">Cu sit legimus probatus deseruisse. His veniam omnesque no. Ne sea
      eruditi voluptaria reformidans. Ei integre signiferumque est, vim nisl mundi at, nostrud legendos instructor
      ei mei.</cfAbstr> <!-- (cfLangCode = element 8) -->
  </cfResPubl>

```

```

<!-- ===== Linked Measurements ===== -->
<!-- element 25 -->
  <cfMeas>
    <cfMeasId>conformity-c4d-metadata-45</cfMeasId>
    <cfName cfLangCode="eng" cfTrans="o">Conformity title</cfName>
    <cfDescr cfLangCode="eng" cfTrans="o">Conformity explanatio</cfDescr>
  </cfMeas>

<!-- ===== Linked Persons ===== -->
<!-- element 22(b) -->
  <cfPers>
    <cfPersId>responsibleParty-c4d-contact-32051</cfPersId>
    <cfPersName>
      <cfFamilyNames>Cranner</cfFamilyNames>
      <cfFirstNames>Paul</cfFirstNames>
    </cfPersName>
  </cfPers>

<!-- ===== Linked Orgs ===== -->
<!-- element 22(b) -->
  <cfOrgUnit>
    <cfOrgUnitId>responsibleParty-c4d-org-23429</cfOrgUnitId>
    <cfName cfLangCode="eng" cfTrans="o">University of Sunderland</cfName> <!-- (cfLangCode = element 8) -->
    <cfOrgUnit_EAddr>
      <cfEAddrId>01915152000</cfEAddrId>
      <cfClassId>telephone</cfClassId>
      <cfClassSchemeId>class_scheme_organisation_electronicAddress</cfClassSchemeId>
    </cfOrgUnit_EAddr>
    <cfOrgUnit_EAddr>
      <cfEAddrId>01915153236</cfEAddrId>
      <cfClassId>fax</cfClassId>
      <cfClassSchemeId>class_scheme_organisation_electronicAddress</cfClassSchemeId>
    </cfOrgUnit_EAddr>
    <cfOrgUnit_EAddr>
      <cfEAddrId>enquiries@sunderland.ac.uk</cfEAddrId>
      <cfClassId>email</cfClassId>
      <cfClassSchemeId>class_scheme_organisation_electronicAddress</cfClassSchemeId>
    </cfOrgUnit_EAddr>
    <cfOrgUnit_PAddr>

```

```

        <cfPAddrId>responsibleParty-c4d-org-23429</cfPAddrId>
        <cfClassId>organisation_legal_postal_address</cfClassId>
        <cfClassSchemeId>class_scheme_cerif_OrgUnit_PAddr</cfClassSchemeId>
    </cfOrgUnit_PAddr>
</cfOrgUnit>
<cfPAddr>
    <cfPAddrId>responsibleParty-c4d-org-23429</cfPAddrId>
    <cfAddrline1>Edinburgh Building</cfAddrline1>
    <cfAddrline2>City Campus</cfAddrline2>
    <cfAddrline3>Chester Road</cfAddrline3>
    <cfPostCode>SR1 3SD</cfPostCode>
    <cfCityTown>Sunderland</cfCityTown>
    <cfStateOfCountry>Tyne and Wear</cfStateOfCountry>
</cfPAddr>
<!-- element 27(b) -->
<cfOrgUnit>
    <cfOrgUnitId>authority-c4d-metadata-44</cfOrgUnitId>
    <cfName cfLangCode="eng" cfTrans="o">MEDIN Discovery Metadata Standard</cfName> <!-- (cfLangCode = element 8) -->
</cfOrgUnit>

<!-- ===== Linked Classifications ===== -->
<!-- element 15(b) -->
<cfClass>
    <cfClassId>spatialReference-c4d-metadata-44</cfClassId>
    <cfClassSchemeId>class_scheme_resultProduct_classification_spatialReferenceSystem</cfClassSchemeId>
    <cfURI>urn:ogc:def:crs:EPSG::4326</cfURI>
</cfClass>
</CERIF>

```


Summary of Classification Scheme Names

- class_scheme_cerif_resultProduct_resultProduct
- class_scheme_organisationUnit_resultProduct_dataResponsibility
- class_scheme_organisationUnit_resultProduct_roles
- class_scheme_person_resultProduct_dataResponsibility
- class_scheme_resultProduct_classification_bodcParameterDiscovery
- class_scheme_resultProduct_classification_c191seavoxGazetteer
- class_scheme_resultProduct_classification_dataFormat
- class_scheme_resultProduct_classification_datasetTopics
- class_scheme_resultProduct_classification_datasetTypes
- class_scheme_resultProduct_classification_inspireThemes
- class_scheme_resultProduct_classification_metadata
- class_scheme_resultProduct_classification_onlineFunctions
- class_scheme_resultProduct_classification_publicAccessLimitations
- class_scheme_resultProduct_classification_seavoxVerticalCoordinateCoverage
- class_scheme_resultProduct_classification_spatialReferenceSystem
- class_scheme_resultProduct_classification_temporalReference
- class_scheme_resultProduct_classification_updateFrequency
- class_scheme_resultProduct_service_spatialDataServiceTypes
- class_scheme_resultProduct_measurement
- class_scheme_resultPublication_resultProduct_additionalInfoSource

Summary of C4D-generated Identifiers

Whenever a new metadata record is created in C4D, a UUID is generated.

Rather than generate additional UUIDs for linked records, we use the following identifiers in the CERIF. The second element is always 'c4d', the third is the record type (i.e. metadata, contact, organisation), and the fourth is the internal UNIS record identifier. This follows naming conventions used in outputs exported from PURE/ePrints.

- additionalInfo-c4d-metadata-34
- authority-c4d-metadata-34
- resourceLocator-c4d-metadata-34
- responsibleParty-c4d-contact-31851
- responsibleParty-c4d-org-2345
- spatialDataServiceType-c4d-metadata-34
- spatialReference-c4d-metadata-34
- conformity-c4d-metadata-34