…

…

**RECOMMENDATION 1**  
Removed

[replaced by RECOMMENDATION 10]

**RECOMMENDATION 2**The WMO Data Policy pertaining to Resolution 25, Resolution 40 and other directives (e.g. ICAO Annex 3 Meteorological Services for International Air Navigation) shall be expressed using the following controlled vocabulary: "WMOEssential", "WMOAdditional" and “WMOOther”.

[following the suggestion by Jurgen and Ted, the vocabulary has been changed to use the gml:identifier field from the codelist]

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Name** | **Domain Code** | **Definition** |
| 1. | WMO\_DataLicenseCode | WMO\_DatLicCd | WMO Data License applied to the data resource – derived from WMO Resolution 25 and Resolution 40 (<http://www.wmo.int/pages/about/exchangingdata_en.html>) |
| 2. | WMO Essential | 001 | WMO Essential Data: free and unrestricted international exchange of basic meteorological data and products. |
| 3. | WMO Additional | 002 | WMO Additional Data: free and unrestricted access to data and products exchanged under the auspices of WMO to the research and education communities for non-commercial activities. A more precise definition of the data policy may be additionally supplied within the metadata. In all cases it shall be the responsibility of the data consumer to ensure that they understand the data policy specified by the data provider – which may necessitate dialogue with the data publisher for confirmation of terms and conditions. |
| 4. | WMO Other | 003 | Data identified for global distribution via WMO infrastructure (GTS / WIS) that is not covered by WMO Resolution 25 or WMO Resolution 40; e.g. aviation OPMET data. Data marked with “WMO Other” data policy shall be treated like “WMO Additional” where a more precise definition of the data policy may be additionally supplied within the metadata. In all cases it shall be the responsibility of the data consumer to ensure that they understand the data policy specified by the data provider – which may necessitate dialogue with the data publisher for confirmation of terms and conditions. |

The XML implementation of this controlled vocabulary is expressed as a codelist. The XML codelist dictionary is included below for reference:

<gmx:CodeListDictionary gml:id="WMO\_DataLicenseCode">

<gml:description>

WMO Data License applied to the data resource – derived from WMO Resolution 25 and Resolution 40

(http://www.wmo.int/pages/about/exchangingdata\_en.html)

</gml:description>

<gml:identifier codeSpace="WMO Core Metadata Profile">WMO\_DataLicenseCode</gml:identifier>

<gmx:codeEntry>

<gmx:CodeDefinition gml:id="WMO\_DataLicenseCode\_essential">

<gml:description>

WMO Essential Data: free and unrestricted international exchange of basic meteorological data and products.

</gml:description>

<gml:identifier codeSpace="WMO Core Metadata Profile">WMOEssential</gml:identifier>

<gml:name>WMO Essential</gml:name>

</gmx:CodeDefinition>

</gmx:codeEntry>

<gmx:codeEntry>

<gmx:CodeDefinition gml:id="WMO\_DataLicenseCode\_additional">

<gml:description>

WMO Additional Data: free and unrestricted access to data and products exchanged under the auspices of WMO to the

research and education communities for non-commercial activities. A more precise definition of the data policy may be

additionally supplied within the metadata. In all cases it shall be the responsibility of the data consumer to ensure

that they understand the data policy specified by the data provider – which may necessitate dialogue with the data

publisher for confirmation of terms and conditions.

</gml:description>

<gml:identifier codeSpace="WMO Core Metadata Profile">WMOAdditional</gml:identifier>

<gml:name>WMO Additional</gml:name>

</gmx:CodeDefinition>

</gmx:codeEntry>

<gmx:codeEntry>

<gmx:CodeDefinition gml:id="WMO\_DataLicenseCode\_other">

<gml:description>

Data identified for global distribution via WMO infrastructure (GTS / WIS) that is not covered by WMO Resolution 25 or

WMO Resolution 40; e.g. aviation OPMET data. Data marked with “WMO Other” data policy shall be treated like “WMO

Additional” where a more precise definition of the data policy may be additionally supplied within the metadata. In all

cases it shall be the responsibility of the data consumer to ensure that they understand the data policy specified by the

data provider – which may necessitate dialogue with the data publisher for confirmation of terms and conditions.

</gml:description>

<gml:identifier codeSpace="WMO Core Metadata Profile">WMOOther</gml:identifier>

<gml:name>WMO Other</gml:name>

</gmx:CodeDefinition>

</gmx:codeEntry>

</gmx:CodeListDictionary>

[given that Jurgen and Ted suggest use of the gml:identifier element from the codelist, the gml:identifier field has been amended to provide additional clarity; i.e. changed from “essential” to “WMOEssential” as suggested by Ted although it’s a “bit ugly”]

The codelist can be found in the codelist dictionary <http://wis.wmo.int/2010/metadata/version_1-2/WMOCodelists.xml>

**ACTION R2.2** Amend the codelist at wis.wmo.int with the changes proposed above.

[Ted suggested that an alternative mechanism was to extend the MD\_RestrictionCode codelist to include ‘WMOEssential’ and ‘WMOAdditional’ – these terms could then be used directly within a gmd:useConstraints or gmd:accessConstraints element. However, as no one has responded positively to this suggestion, I will assume that we have discounted this idea.]

**RECOMMENDATION 3.1**  
Removed

[Jurgen and Jean-Pierre (rightly) suggest that WMO metadata recommendations is not the place to provide guidance about INSPIRE compliance]

**RECOMMENDATION 3.2**The absence of gmd:resourceConstraints element shall be understood to imply that there are no restrictions placed on the use or access of the resource that described by the metadata record. However, it is recommended that ALL metadata records include information about the data policy – whether WMO Essential, WMO Additional, WMO Other or some custom data policy or the explicit statement that no conditions apply. [source: Jean-Pierre]

The presence of a gmd:resourceConstraints/\*/gmd:useLimitation/\*/ ”No conditions apply” assertion shall be understood to imply that there are no restrictions placed on the use or access of the resource that described by the metadata record.

[clarification from Jurgen]

For example:

<gmd:resourceConstraints>

<gmd:MD\_Constraints>  
 <gmd:useLimitation>  
 <gco:CharacterString>No conditions apply</gco:CharacterString>  
 </gmd:useLimitation>

</gmd:MD\_Constraints>

</gmd:resourceConstraints>

The phrase "No conditions apply" is informative and does not form part of any controlled vocabulary. It does not appear with the WMO Data License Code (aka Data Policy) controlled vocabulary.   
  
**RECOMMENDATION 4**  
The legal validity period that a resource (such as Terminal Aerodrome Forecast [TAF]) may be used shall be defined a period of valid usage. The recommended method is:

gmd:MD\_LegalConstraints/gmd:useLimitations/gmd:CharacterString="{ISO 8601 compliant PERIOD definition}"

gmd:MD\_LegalConstrains/gmd:useConstraints/gmd:MD\_RestrictionCode="otherRestrictions"

gmd:MD\_LegalConstraints/gmd:otherConstraints/gmd:CharacterString="Valid usage period after issue"

For example, the following XML snippet describes the legal usage constraint for a 12-hour TAF:

<gmd:resourceConstraints>

<gmd:MD\_LegalConstraints>  
 <gmd:useLimitation>  
 <gco:CharacterString>PT12H</gco:CharacterString>  
 </gmd:useLimitation>  
 <gmd:useConstraints>  
 <gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:useConstraints>

<gmd:otherConstraints>

<gco:CharacterString>Valid usage period after issue</gco:CharacterString>

</gmd:otherConstraints>

<!-- WMO Data Policy declaration -->

<gmd:otherConstraints>

<gco:CharacterString>WMOOther</gco:CharacterString>

</gmd:otherConstraints>

<!-- WMO GTS Priority declaration -->

<gmd:otherConstraints>

<gco:CharacterString>GTSPriority2</gco:CharacterString>

</gmd:otherConstraints>

<!-- Supplemental declaration of ICAO OPMET data policy -->

<gmd:otherConstraints>

<gco:CharacterString>ICAO Annex 3 Meteorological Services for International Air Navigation</gco:CharacterString>

</gmd:otherConstraints>

</gmd:MD\_LegalConstraints>

</gmd:resourceConstraints>

[Ted suggested that we may be able to use a more explicit statement about the period of valid use; i.e. gmd:resourceConstraints/gmd:MD\_LegalConstraints/gmd:useLimitation/gco:CharacterString=”2011-08-22T00:00:00Z/PT12”. However, as stated by Jean-Pierre, GTS metadata describes “series” of bulletins. Each bulletin conforms to a template & may be published several times each day. The metadata is (pseudo-)static and describes the elements of the bulletin that do not change. Because of this, GTS metadata cannot be tied to a particular date-time as Ted suggests; we can only specify the duration.]

**RECOMMENDATION 5**Custom data policies (i.e. those not defined in WMO Resolution 25 or Resolution 40 - such as those defined by a DCPC like EUMETSAT) shall be expressed using gmd:otherConstraint ISO19139 permits the content of gmd:otherConstraints to be either gco:CharacterString or gmx:Anchor [source: Jurgen].

Custom data policies may apply to either USE (gmd:useConstraints), ACCESS (gmd:accessConstraints) or BOTH [source: Jean-Pierre].

It is recommended that additional information about the custom data policy is referenced via an HTTP URI.

The following XML snippet provides information regarding a data policy for accessing buoy data from JCOMM's Data Buoy Collaboration Panel:

<gmd:resourceConstraints>

<gmd:MD\_LegalConstraints>

<gmd:useConstraints>  
 <gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:useConstraints>

<gmd:otherConstraints>  
 <gmx:Anchor xlink:href="<http://www.jcommops.org/dbcp/data/access.html>">Access to Buoy Data</gmx:Anchor>

</gmd:otherConstraints>

</gmd:MD\_LegalConstraints>

</gmd:resourceConstraints>

It is noted that not all ISO19115 catalogue implementations (e.g. GeoNetwork) are able to process gmx:Anchor elements. In these cases, the gmx:Anchor element is treated as a gco:CharacterString type, thus failing to display information about the reference HTTP URI.  
  
To mitigate this, it is recommended to use a gco:CharacterString element with the HTTP URI included within the free-text delineated with the use of square brackets "[" and "]". [following Jean-Pierre’s comment about ‘processing impact’ I have added an explicit recommendation (not mandatory) to use gco:CharacterString with URI in square brackets. The proposed method is ‘immune’ to the problems about interpreting gmx:Anchor. However, the problem remains that metadata authors may use either mechanism. Manuel also suggests we use a mechanism that works uniformly]

For example:

<gmd:otherConstraints>  
  <gco:CharacterString>Access to Buoy Data [<http://www.jcommops.org/dbcp/data/access.html>]</gco:CharacterString>

</gmd:otherConstraints>

Compliance with WMO Core Metadata profile shall not preclude the use of gmx:Anchor; i.e. metadata records that use gmx:Anchor shall be deemed acceptable. Publishers who choose to use gmx:Anchor should understand that any information specified within the gmx:Anchor xlink attribute, such as the URI for additional license information, may not be displayed in all GISC catalogue implementations.

In the medium term (6 – 12 months), it is anticipated that GISCs shall improve handling of gmx:Anchor such that URIs expressed via the xlink attribute are displayed correctly[[1]](#footnote-1).

Note that the ISO19115:2012 revision proposes to make the data policy citation explicit using a new element of type CI\_Citation. [source: Ted]

**RECOMMENDATION 6**Removed

[replaced by RECOMMENDATION 10]

**RECOMMENDATION 7**The GTS Priority (aka GTS Product Category Code) shall be expressed using the following controlled vocabulary: "GTSPriority1", "GTSPriority2", "GTSPriority3" and "GTSPriority4".

[following the suggestion by Jurgen and Ted, the vocabulary has been changed to use the gml:identifier field from the codelist]

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Name** | **Domain Code** | **Definition** |
| 1. | WMO\_GTS\_ProductCategoryCode | WMO\_GTSCatCd | Product category used for prioritising messages on the WMO Global Telecommunications System (GTS) |
| 2. | GTS Priority 1 | 001 | GTS Priority 1 – highest priority products |
| 3. | GTS Priority 2 | 002 | GTS Priority 2 |
| 4. | GTS Priority 3 | 003 | GTS Priority 3 |
| 5. | GTS Priority 4 | 004 | GTS Priority 4 |

The XML implementation of this controlled vocabulary is expressed as a codelist. The XML codelist dictionary is included below for reference:

<gmx:CodeListDictionary gml:id="WMO\_GTSProductCategoryCode">

<gml:description>

Product category used for prioritising messages on the WMO Global Telecommunications System (GTS)

</gml:description>

<gml:identifier codeSpace="WMO Core Metadata Profile">WMO\_GTSProductCategoryCode</gml:identifier>

<gmx:codeEntry>

<gmx:CodeDefinition gml:id="WMO\_GTSProductCategoryCode\_1">

<gml:description>GTS Priority 1 – highest priority products</gml:description>

<gml:identifier codeSpace="WMO Core Metadata Profile">GTSPriority1</gml:identifier>

<gml:name>GTS Priority 1</gml:name>

</gmx:CodeDefinition>

</gmx:codeEntry>

<gmx:codeEntry>

<gmx:CodeDefinition gml:id="WMO\_GTSProductCategoryCode\_2">

<gml:description>GTS Priority 2</gml:description>

<gml:identifier codeSpace="WMO Core Metadata Profile">GTSPriority2</gml:identifier>

<gml:name>GTS Priority 2</gml:name>

</gmx:CodeDefinition>

</gmx:codeEntry>

<gmx:codeEntry>

<gmx:CodeDefinition gml:id="WMO\_GTSProductCategoryCode\_3">

<gml:description>GTS Priority 3</gml:description>

<gml:identifier codeSpace="WMO Core Metadata Profile">GTSPriority3</gml:identifier>

<gml:name>GTS Priority 3</gml:name>

</gmx:CodeDefinition>

</gmx:codeEntry>

<gmx:codeEntry>

<gmx:CodeDefinition gml:id="WMO\_GTSProductCategoryCode\_4">

<gml:description>GTS Priority 4</gml:description>

<gml:identifier codeSpace="WMO Core Metadata Profile">GTSPriority4</gml:identifier>

<gml:name>GTS Priority 4</gml:name>

</gmx:CodeDefinition>

</gmx:codeEntry>

</gmx:CodeListDictionary>

[given that Jurgen and Ted suggest use of the gml:identifier element from the codelist, the gml:identifier field has been amended to provide additional clarity; i.e. changed from “2” to “GTSPriority2”]

The codelist can be found in the codelist dictionary <http://wis.wmo.int/2010/metadata/version_1-2/WMOCodelists.xml>

**ACTION R7.1** Amend the codelist at wis.wmo.int with the changes proposed above.

**RECOMMENDATION 8**  
Removed

[replaced by RECOMMENDATION 10]

**RECOMMENDATION 9**

Removed

[replaced by RECOMMENDATION 13]

**RECOMMENDATION 10**

[new recommendation; includes previous recommendations 1, 6 and 8. Source: Jurgen]

WMO Data Policy and GTS Priority (aka. GTS Product Category Code) shall be expressed using:

/gmd:MD\_Metadata/gmd:identificationInfo/gmd:MD\_DataIdentification/gmd:resourceConstraints/gmd:MD\_LegalConstraints/gmd:otherConstraints

[note that contrary to Jurgen’s suggestion, custom data policies originating from different sources may be expressed in different gmd:resourceConstraints elements (see below). ‘custom data policies’ are not discussed in this recommendation; RECOMMENDATION 5 refers.]

The following XML snippet provides an example for expressing a 'WMO Essential' data policy and a 'GTS Priority 3' product code:

<gmd:resourceConstraints>

<gmd:MD\_LegalConstraints>

<gmd:otherConstraints>

<gco:CharacterString>WMOEssential</gco:CharacterString>

</gmd:otherConstraints>

<gmd:otherConstraints>

<gco:CharacterString>GTSPriority3</gco:CharacterString>

</gmd:otherConstraints>

</gmd:MD\_LegalConstraints>

</gmd:resourceConstraints>

[note the use of “WMOEssential” and “GTSPriority3” terms; as suggested by Jurgen and Ted we should use the gml:identifier element from the codelist – RECOMMENDATIONS 2 and 7 refer]

The WMO Data Policy is considered to be a LEGAL CONSTRAINT. More details on WMO Data Policy (WMO Resolution 40 and Resolution 25) are described online here: <http://www.wmo.int/pages/about/exchangingdata_en.html>.

The GTS Priority is considered to be a LEGAL CONSTRAINT.

The absence of both gmd:accessConstraints and gmd:useConstraints shall be interpreted such that the terms expressed in gmd:otherConstraints apply to both access and use.

However, it is recommended that the metadata record reflect this by including gmd:useConstraints and gmd:accessConstraints. The XML snippet from the previous example is amended as follows:

<gmd:resourceConstraints>

<gmd:MD\_LegalConstraints>

<gmd:accessConstraints>

<gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:accessConstraints>

<gmd:useConstraints>

<gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:useConstraints>

<gmd:otherConstraints>

<gco:CharacterString>WMOEssential</gco:CharacterString>

</gmd:otherConstraints>

<gmd:otherConstraints>

<gco:CharacterString>GTSPriority3</gco:CharacterString>

</gmd:otherConstraints>

</gmd:MD\_LegalConstraints>

</gmd:resourceConstraints>

[This recommendation now (appears to) echo the proposal made during the teleconference organised by Timo in mid-August. Jean-Pierre indicates that both WMO Data Policy and GTS Priority apply to USE and ACCESS of data and proposes that the gmd:otherConstraints is always complemented by both gmd:useConstraints and gmd:accessConstraints elements. Ted also suggests this is good for ‘defensive programming’ (*the discussion at*[*https://geo-ide.noaa.gov/wiki/index.php?title=ISO\_Constraints*](https://geo-ide.noaa.gov/wiki/index.php?title=ISO_Constraints)*identifies a potential problem with leaving out the codelists and proposes essentially a defensive programming approach*).]

It is recommended that all statements regarding constraints originating from a single source shall be grouped into a single gmd:resourceConstraints element. This recommendation aims to ensure forward compatibility with proposed revisions of ISO19115 where the amended gmd:MD\_Constraints class is expected to include information about the source of a (set of) constraints.

Note: schematron validation for WMO Core Metadata Profile compliance will only verify the presence of the gmd:otherConstraints elements. Use of gmd:accessConstraints and gmd:useConstraints remains a recommended practice but will not be enforced.

Where WMO Data Policies “WMO Additional” or “WMO Other” are cited, a more precise definition of the additional access or usage restrictions may be provided by the data publisher. The following XML snippet demonstrates how data released by EUMETSAT under WMO Resolution 40 ‘additional’ policy is supplemented by their own terms and conditions:

<!-- EUMETSAT part -->

<gmd:resourceConstraints>

<gmd:MD\_LegalConstraints>

<gmd:useLimitation>

<gco:CharacterString> EUMETSAT Near Real-time Data Services

[http://www.eumetsat.int/Home/Main/DataAccess/EOPortal/SP\_2010032384655495]

</gco:CharacterString>

</gmd:useLimitation>

<gmd:accessConstraints>  
 <gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">copyright</gmd:MD\_RestrictionCode>

</gmd:accessConstraints>

<gmd:useConstraints>  
 <gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">copyright</gmd:MD\_RestrictionCode>

</gmd:useConstraints>

</gmd:MD\_LegalConstraints>

</gmd:resourceConstraints>

<!-- WMO part -->

<gmd:resourceConstraints>

<gmd:MD\_LegalConstraints>

<gmd:accessConstraints>

<gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:accessConstraints>

<gmd:useConstraints>

<gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:useConstraints>

<gmd:otherConstraints>

<gco:CharacterString>WMOAdditional</gco:CharacterString>

</gmd:otherConstraints>

<gmd:otherConstraints>

<gco:CharacterString>GTSPriority3</gco:CharacterString>

</gmd:otherConstraints>

</gmd:MD\_LegalConstraints>

</gmd:resourceConstraints>

Supplemental data policy statements shall follow the guidance outlined in RECOMMENDATION 5 for expressing custom data policies.

Data publishers are encouraged to include a reference to a more precise definition of the data policy terms and conditions associated with ‘WMO Additional’ and ‘WMO Other’. Provision of supplemental data policy information is not mandatory. In all cases it shall be the responsibility of the data consumer to ensure that they understand the data policy specified by the data provider. Where supplemental information is not found within the metadata record, this may necessitate dialogue with the data publisher for confirmation of terms and conditions.

**RECOMMENDATION 11**

Removed

[replaced by RECOMMENDATION 12]

**RECOMMENDATION 12**

[new – following suggestion by Steve Foreman]

The presence of a statement about GTS Priority (i.e. gmd:resourceConstraints/gmd:MD\_LegalConstraints/gmd:otherConstraints/gco:CharacterString=”GTSPriority*N*”) shall indicate that the dataset described by the metadata record is identified for global distribution via the WMO infrastructure (GTS / WIS); i.e. the dataset shall be incorporated into the GISC cache.

**RECOMMENDATION 13**

[new – following discussion at IPET-MDI teleconference 2011-09-20]

Where a statement concerning GTS Priority (i.e. gmd:resourceConstraints/gmd:MD\_LegalConstraints/gmd:otherConstraints/gco:CharacterString=”GTSPriority*N*”) is present, compliance with the WMO Core Metadata Profile requires the metadata record to include one of the following WMO Data Policy statements:

* /gmd:MD\_Metadata/gmd:identificationInfo/gmd:MD\_DataIdentification/gmd:resourceConstraints/gmd:MD\_LegalConstraints/gmd:otherConstraints/gco:CharacterString=”**WMOEssential**”
* /gmd:MD\_Metadata/gmd:identificationInfo/gmd:MD\_DataIdentification/gmd:resourceConstraints/gmd:MD\_LegalConstraints/gmd:otherConstraints/gco:CharacterString=”**WMOAdditional**”
* /gmd:MD\_Metadata/gmd:identificationInfo/gmd:MD\_DataIdentification/gmd:resourceConstraints/gmd:MD\_LegalConstraints/gmd:otherConstraints/gco:CharacterString=”**WMOOther**”

These terms are taken from the WMO\_DataLicenseCode codelist dictionary found at: <http://wis.wmo.int/2010/metadata/version_1-2/WMOCodelists.xml>. Only exact matches to the terms from the codelist are acceptable; "wmo-essential", "WMO Essential", or "WmOaDdiTiOnaL" will all fail to validate.

The presence of more than one WMO Data Policy statement in a single metadata record yields an ambiguous state; such records shall be interpreted as having undefined meaning with respect to WMO data policy.

[ACTION imported from RECOMMENDATION 9 which is superseded by this RECOMMENDATION]

-o-o-o-o-

Examples (as supplied by EUMETSAT) are shown below:

1. Data Policy ”WMO Essential” and GTS Priority 2

<gmd:resourceConstraints>

<gmd:MD\_LegalConstraints>

<gmd:accessConstraints>

<gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:accessConstraints>

<gmd:useConstraints>

<gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:useConstraints>

<gmd:otherConstraints>

<gco:CharacterString>WMOEssential</gco:CharacterString>

</gmd:otherConstraints>

<gmd:otherConstraints>

<gco:CharacterString>GTSPriority2</gco:CharacterString>

</gmd:otherConstraints>

</gmd:MD\_LegalConstraints>

</gmd:resourceConstraints>

[note changes: gmd:accessConstraints added, “WMOEssential” and “GTSPriority2” terms used]

1. Data Policy ”WMO Additional” and GTS Priority 3

<gmd:resourceConstraints>

<gmd:MD\_LegalConstraints>

<gmd:accessConstraints>

<gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:accessConstraints>

<gmd:useConstraints>

<gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:useConstraints>

<gmd:otherConstraints>

<gco:CharacterString>WMOAdditional</gco:CharacterString>

</gmd:otherConstraints>

<gmd:otherConstraints>

<gco:CharacterString>GTSPriority3</gco:CharacterString>

</gmd:otherConstraints>

</gmd:MD\_LegalConstraints>

</gmd:resourceConstraints>

[note changes: gmd:accessConstraints added, “WMOAdditional” and “GTSPriority3” terms used]

1. No conditions apply to ACCESS or USE of data

<gmd:resourceConstraints>

<gmd:MD\_Constraints>  
 <gmd:useLimitation>  
 <gco:CharacterString>No conditions apply</gco:CharacterString>  
 </gmd:useLimitation>

</gmd:MD\_Constraints>

</gmd:resourceConstraints>

<gmd:resourceConstraints>

<gmd:MD\_LegalConstraints>

<gmd:accessConstraints>

<gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO\_19139\_Schemas/resources/Codelist/ML\_gmx

Codelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:accessConstraints>

<gmd:otherConstraints>

<gco:CharacterString>no limitations</gco:CharacterString>

</gmd:otherConstraints>

</gmd:MD\_LegalConstraints>

</gmd:resourceConstraints>

[added the no limitations construct required by INSPIRE (source: Guillaume)]

[note: MD\_Constraints used rather than MD\_LegalConstraint … after all, we’re declaring NO CONSTRAINTS at all, so it’s not a LEGAL CONSTRAINT]

[note: it is recommended to explicitly state that no conditions apply – as opposed to the omission of gmd:resourceConstraint element]

1. EUMETSAT specific data policy on USAGE (using gmx:Anchor)

<gmd:resourceConstraints>

<gmd:MD\_LegalConstraints>

<gmd:useConstraints>  
 <gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:useConstraints>

<gmd:otherConstraints>  
 <gmx:Anchor xlink:href="<http://www.eumetsat.int/Home/Main/DataAccess/EOPortal/SP_2010032384655495>">

Access to EUMETSAT Near Real-time Data Services</gmx:Anchor>

</gmd:otherConstraints>

</gmd:MD\_LegalConstraints>

</gmd:resourceConstraints>

1. EUMETSAT specific data policy on USAGE (using gco:CharacterString and URI in free-text)

<gmd:resourceConstraints>

<gmd:MD\_LegalConstraints>

<gmd:useConstraints>  
 <gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:useConstraints>

<gmd:otherConstraints>

<gco:CharacterString> Access to EUMETSAT Near Real-time Data Services

[<http://www.eumetsat.int/Home/Main/DataAccess/EOPortal/SP_2010032384655495>]</gco:CharacterString>

</gmd:otherConstraints>

</gmd:MD\_LegalConstraints>

</gmd:resourceConstraints>

1. Combination of WMO and EUMETSAT constraints

<!-- EUMETSAT part -->

<gmd:resourceConstraints>

<gmd:MD\_LegalConstraints>

<gmd:useLimitation>

<gco:CharacterString>restricted</gco:CharacterString>

</gmd:useLimitation>

<gmd:accessConstraints>  
 <gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">copyright</gmd:MD\_RestrictionCode>

</gmd:accessConstraints>

<gmd:useConstraints>  
 <gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">copyright</gmd:MD\_RestrictionCode>

</gmd:useConstraints>

</gmd:MD\_LegalConstraints>

</gmd:resourceConstraints>

<!-- WMO part -->

<gmd:resourceConstraints>

<gmd:MD\_LegalConstraints>

<gmd:accessConstraints>

<gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:accessConstraints>

<gmd:useConstraints>

<gmd:MD\_RestrictionCode codeList="http://standards.iso.org/ittf/PublicallyAvailableStandards/

ISO\_19139\_Schemas/resources/Codelist/gmxCodelists.xml#MD\_RestrictionCode"

codeListValue="otherRestrictions">otherRestrictions</gmd:MD\_RestrictionCode>

</gmd:useConstraints>

<gmd:otherConstraints>

<gco:CharacterString>WMOAdditional</gco:CharacterString>

</gmd:otherConstraints>

<gmd:otherConstraints>

<gco:CharacterString>GTSPriority3</gco:CharacterString>

</gmd:otherConstraints>

</gmd:MD\_LegalConstraints>

</gmd:resourceConstraints>

[note that constraints from different sources are partitioned into separate gmd:MD\_LegalConstraint elements to support forward compatibility with upcoming ISO19115:2012 revision]

…

1. Note: at present there is no intent for GISCs to support the xlink resolution such that remote XML content identified by the xlink URI will be fetched and merged into the local XML metadata record. [↑](#footnote-ref-1)